CMT-CP300

SERVICE MANUAL

Ver 1.0 2001. 04

Canadian Model
AEP Model
UK Model
E Model

- CMT-CP300 are composed of following models.
  As for the service manual, it is issued for each component model, then, please refer to them.

COMPONENT MODEL NAME

	CMT-CP300
COMPACT DISK DECK RECEIVER SYSTEM	HCD-CP300
SPEAKER SYSTEM	SS-CCP300

- Abbreviation
  CND : Canadian model.
  EA : Saudi Arabia model.
  MX : Mexican model.
  SP : Singapore model.

SPECIFICATIONS

General

Power requirements
Canadian, Mexican model: 120 V AC, 60 Hz
European model: 230 V AC, 50/60 Hz
Other models: 110 - 120 V or 220 - 240 V AC, 50/60 Hz
Adjustable with voltage selector

Power consumption
European model: 70 W
0.5 W (at the power saving mode)
Other models: 70 W

Dimensions (w/h/d) Approx. 225 × 273 × 385 mm incl. projecting parts and controls

Mass Approx. 7.3 kg

Supplied accessories Remote commander (1)
AM loop antenna (1)
FM wire antenna (1)
Batteries (2)

Design and specifications are subject to change without notice.

PARTS LIST

Part No.	Description	Remark
	ACCESSORIES & PACKING MATERIALS	
	**********	
1-476-705-11	REMOTE COMMANDER (RM-SCP300)	
1-501-374-11	ANTENNA, LOOP (AM)	
1-501-659-61	ANTENNA (FM) (CND,EA,MX,SP)	
⚠1-569-008-21	ADAPTOR, CONVERSION 2P (EA,SP)	
1-754-060-11	ANTENNA (FM) (AEP,UK)	
4-233-757-11	MANUAL, INSTRUCTION (ENGLISH) (CND,AEP,UK,EA,SP)	
4-233-757-21	MANUAL, INSTRUCTION (FRENCH,SPANISH) (AEP,SP)	
4-233-757-31	MANUAL, INSTRUCTION (FRENCH) (CND,EA)	
4-233-757-41	MANUAL, INSTRUCTION (SPANISH) (MX)	
4-233-757-51	MANUAL, INSTRUCTION (GERMAN,DUTCH,ITALIAN) (AEP)	
4-233-757-61	MANUAL, INSTRUCTION (SWEDISH,POLISH) (AEP)	
4-233-757-71	MANUAL, INSTRUCTION (ARABIC) (EA)	
4-233-757-81	MANUAL, INSTRUCTION (CHINESE) (SP)	
4-233-758-11	MANUAL, INSTRUCTION (DANISH,FINNISH) (AEP)	
4-233-758-21	MANUAL, INSTRUCTION (PORTUGUESE) (AEP)	
4-235-505-01	COVER BATTERY (FOR RM-SCP300)	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

MICRO HI-FI COMPONENT SYSTEM

9-873-888-11
2001D1600-1
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Sony Corporation
Audio Entertainment Group
General Engineering Dept.

SONY®

REVISION HISTORY

Clicking the version allows you to jump to the revised page.
Also, clicking the version at the upper right on the revised page allows you to jump to the next revised page.

Ver.	Date	Description of Revision
1.0	2001.04	New

HCD-CP300

SERVICE MANUAL

Ver 1.0 2001. 04

US Model
Canadian Model
AEP Model
UK Model
E Model

- HCD-CP300 is the Amplifier, CD player, Tape Deck and Tuner section in CMT-CP300.

CD Section	Model Name Using Similar Mechanism	NEW
	CD Mechanism Type	CDM63K-K6BD44
Tape deck Section	Model Name Using Similar Mechanism	NEW

SPECIFICATIONS

Amplifier section

For the U.S. model

AUDIO POWER SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION:

With 6-ohm loads, both channels driven, from 70 - 20,000 Hz; rated 29 watts per channel minimum RMS power, with no more than 0.9% total harmonic distortion from 250 milliwatts to rated output.

North American model:

Continuous RMS power output (reference): 35 + 35 W (6 ohms at 1 kHz, 10% THD)

Total harmonic distortion less than 0.07% (6 ohms at 1 kHz, 28 W)

European model:

DIN power output (rated): 30 + 30 W (6 ohms at 1 kHz, DIN)

Continuous RMS power output (reference): 35 + 35 W (6 ohms at 1 kHz, 10% THD)

Music power output (reference): 85 + 85 W

Other models:

The following measured at 230 V AC, 60 Hz

DIN power output (rated): 27 + 27 W (6 ohms at 1 kHz, DIN)

Continuous RMS power output (reference): 32 + 32 W (6 ohms at 1 kHz, 10% THD)

The following measured at 220 V AC, 60 Hz

DIN power output (rated): 23 + 23 W (6 ohms at 1 kHz, DIN)

Continuous RMS power output (reference): 26 + 26 W (6 ohms at 1 kHz, 10% THD)

Inputs

AUDIO IN MD (VIDEO) (phono jacks): Sensitivity 500/250 mV, impedance 47 kilohms

Outputs

CD DIGITAL OUT OPTICAL: Optical

PHONES: Accepts headphones with an impedance of 8 ohms or more

SPEAKER: 6 ohms

CD player section

System	Compact disc and digital audio system
Laser	Semiconductor laser (λ = 780 nm) Emission duration: continuous
Wavelength	780 - 790 nm
Frequency response	20 Hz - 20 kHz (±0.5 dB)

Tape player section

Recording system	4-track 2-channel stereo
Frequency response	50 - 13,000 Hz (±3 dB), using a Sony TYPE I cassette

Tuner section

FM stereo, FM/AM superheterodyne tuner

FM tuner section

Tuning range	
North American model:	87.5 - 108.0 MHz (100-kHz step)
Other models:	87.5 - 108.0 MHz (50-kHz step)
Antenna	FM wire antenna
Antenna terminals	75 ohm unbalanced
Intermediate frequency	10.7 MHz

AM tuner section

Tuning range	
North American model:	530 - 1,710 kHz (with the tuning interval set at 10 kHz) 531 - 1,710 kHz (with the tuning interval set at 9 kHz)
European model:	531 - 1,602 kHz (with the tuning interval set at 9 kHz)
Middle Eastern and Philippine models:	531 - 1,602 kHz (with the tuning interval set at 9 kHz)
Other models:	530 - 1,710 kHz (with the tuning interval set at 10 kHz) 531 - 1,602 kHz (with the tuning interval set at 9 kHz)
Antenna	AM loop antenna, external antenna terminal
Intermediate frequency	450 kHz

— Continued on next page —

MICRO HI-FI COMPONENT SYSTEM

9-873-896-11
2001D1600-1
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Sony Corporation
Home Audio Company
Shinagawa Tec Service Manual Production Group

SONY®

General

Power requirements	
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European model:	230 V AC, 50/60 Hz
Other models:	110 - 120 V or 220 - 240 V AC , 50/60 Hz Adjustable with voltage selector
Power consumption	
European model:	70 W 0.5 W (at the power saving mode)
Other models:	70 W
Dimensions (w/h/d)	Approx. 225 × 273 × 385 mm incl. projecting parts and controls
Mass	Approx. 7.3 kg

Design and specifications are subject to change without notice.

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Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

Flexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270 ˚C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

CAUTION
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

This appliance is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT MARKING is located on the rear exterior.

CLASS 1 LASER PRODUCT
LUOKAN 1 LASERLAITE
KLASS 1 LASERAPPARAT

Laser component in this product is capable of emitting radiation exceeding the limit for Class 1.

The following caution label is located inside the unit.

CAUTION : INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED. AVOID EXPOSURE TO BEAM.
ADVARSEL : USYNLIG LASERSTRÅLING VED ÅBNING NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION. UNDGÅ UDSAETTELSE FOR STRÅLING.
VORSICHT : UNSICHTBARE LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET UND SICHEREITSVERRIEGELUNG ÜBERBRÜCKT. NICHT DEM STRAHL AUSSETZEN.
VARO! : AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTIINA NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.
VARNING : OSYNLING LASERSTRÅLING NÄR DENNA DEL ÄR ÖPPNAD OCH SPÄRREN ÄR URKOPPLAD. BETRAKTA EJ STRÅLEN.
ADVERSEL : USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES OG SIKKERHEDSLÅS BRYTES. UNNGÅ EKSPONERING FOR STRÅLEN.
VIGYAZAT! : A BURKOLAT NYITÁSAKOR LÁTHATATLAN LÉZERSUGÁRVESZÉLY! KERÜLJE A BESUGÁRZÁST!

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer:
Check the antenna terminals, metal trim, “metallized” knobs, screws, and all other exposed metal parts for AC leakage.
Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes.). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers’ instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The “limit” indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

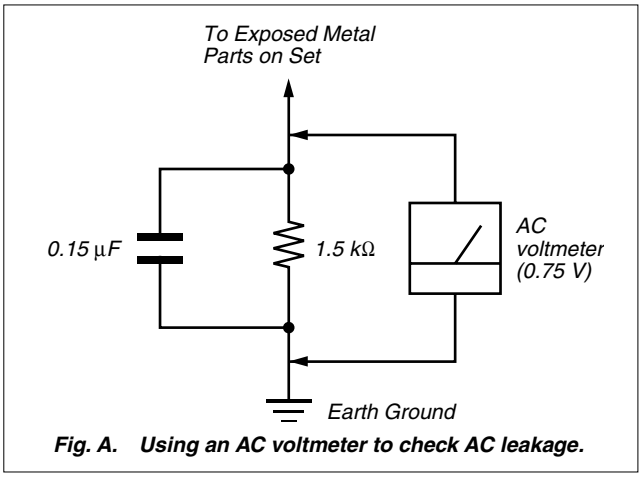


Fig. A. Using an AC voltmeter to check AC leakage.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈSES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPÉMENTS PUBLIÉS PAR SONY.

SECTION 1
SERVICING NOTES

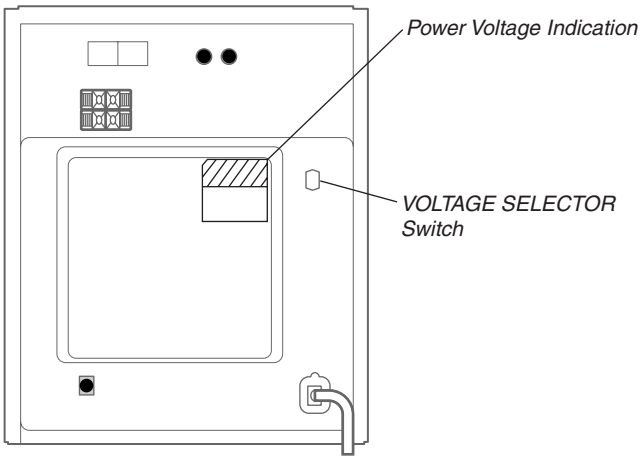
NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic break-down because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

• MODEL IDENTIFICATION
– Rear Panel –

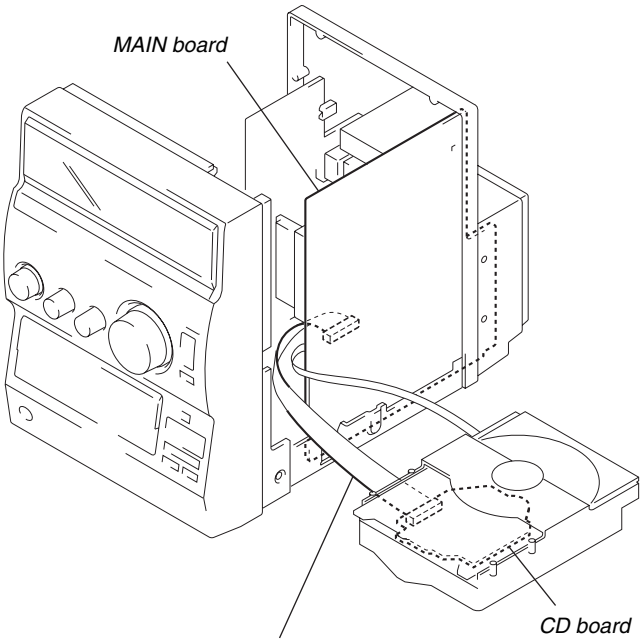


Model	Power Voltage Incdication
US, CND, MX models	AC: 120 V 60 Hz 70 W
AEP, UK models	AC: 230 V 50/60 Hz 70 W
EA, SP, MY models	AC: 110 – 120/ 220 – 240 V 50/60 Hz 70 W

- Abbreviation
  CND : Canadian model
  EA : Saudi Arabia model
  MX : Mexican model
  SP : Singapore model
  MY : Malaysia model

SERVICE POSTION

In checking the CD block, prepare jig (extension cable J-2501-011-B).

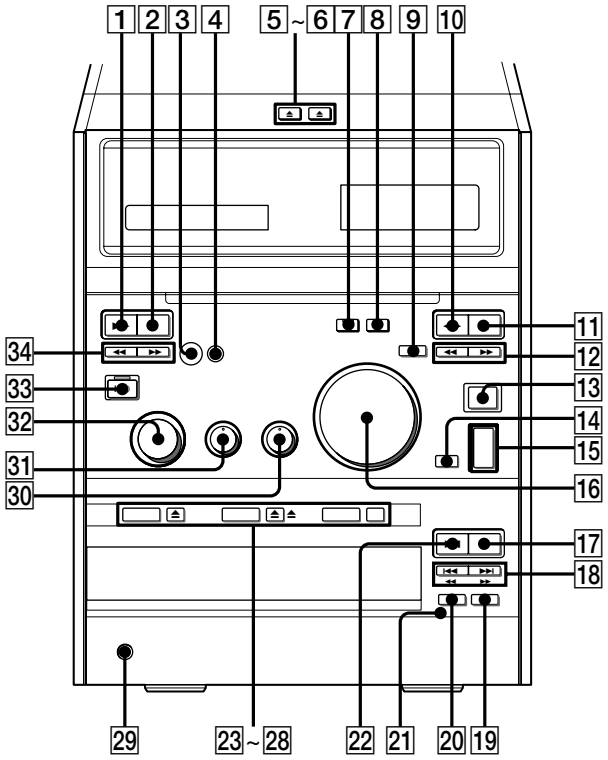


Connect jig (extension cable J-2501-011-B) to the MAIN board (CN101) and CD board (CN101).

SECTION 2
GENERAL

This section is extracted from instruction manual.

Main unit

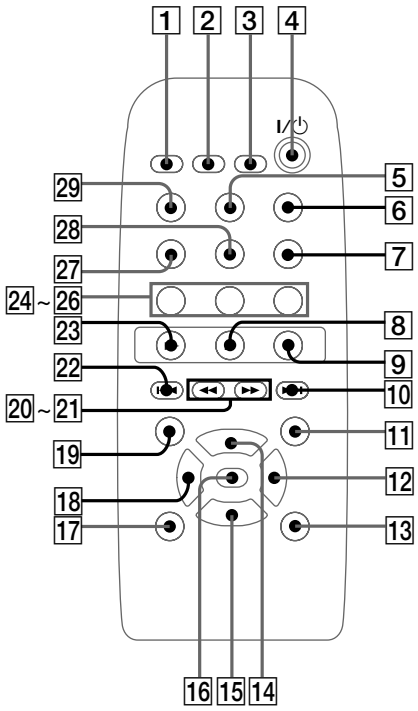


1 DISC indicator 21
BASS 31
CD 1 23
CD 1 ⏏ 24
CD 2 25
CD 2 ⏏ 26
CD 3 27
CD 3 ⏏ 28
CD SYNC 7
CD ▶II 22
CD ■ 17
CD I◀◀ /▶▶I 18
CD ◀◀/▶▶ 18
DECK A EJECT ⏏ 5
DECK B EJECT ⏏ 6
DSG 4
FUNCTION 32
PHONES jack 29
PLAY MODE 20
Remote sensor 3
REPEAT 19
TAPE A ► 1
TAPE B ◄► 10
TAPE A ■ 2
TAPE B ■ 11
TAPE A ◀◀/▶▶ 34
TAPE B ◀◀/▶▶ 12
TAPE REC ● 8
TAPE II 9
TREBLE 30
TUNER BAND 13
TUNING MODE 14
TUNING +/– 15
VOLUME 16

BUTTON DESCRIPTIONS

I/⏻ (power) 33

Remote Control



BASS/TREBLE 19
CD 27
DIRECTION 17
DISC1 24
DISC2 25
DISC3 26
DISPLAY 12
DSG 11
ENTER 16
FUNCTION 5
MEMORY 18
PLAY MODE 29
SLEEP 1
STEREO/MONO 13
TAPE A/B 28
TIMER SELECT 2
TIMER SET 3
TUNER/BAND 7
TUNING MODE 6
VOL + 14
VOL – 15

BUTTON DESCRIPTIONS

► 23
II 8
■ 9
I◄◄ 22
►►I 10
◄◄ 20
►► 21
I/⏻ (power) 4

Setting the time

1 Turn on the system.

2 Press TIMER SET on the remote.
If you are setting the clock for the first time, go to step 5.

3 Press I◄◄/►►I on the remote repeatedly until "CLOCK" appears in the display.

4 Press ENTER on the remote.
The hour indication flashes.

5 Press I◄◄/►►I on the remote repeatedly to set the hour.

6 Press ENTER on the remote.
The minute indication flashes.

7 Press I◄◄/►►I on the remote repeatedly to set the minute.

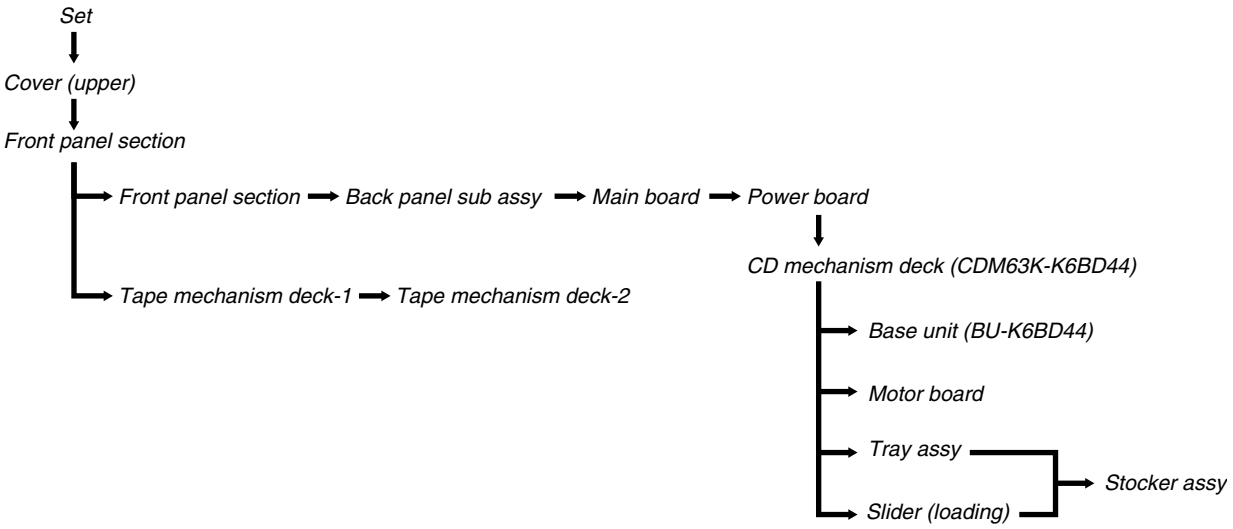
8 Press ENTER on the remote.
The clock will begin operating.

To reset the system clock

Start over from step 1.

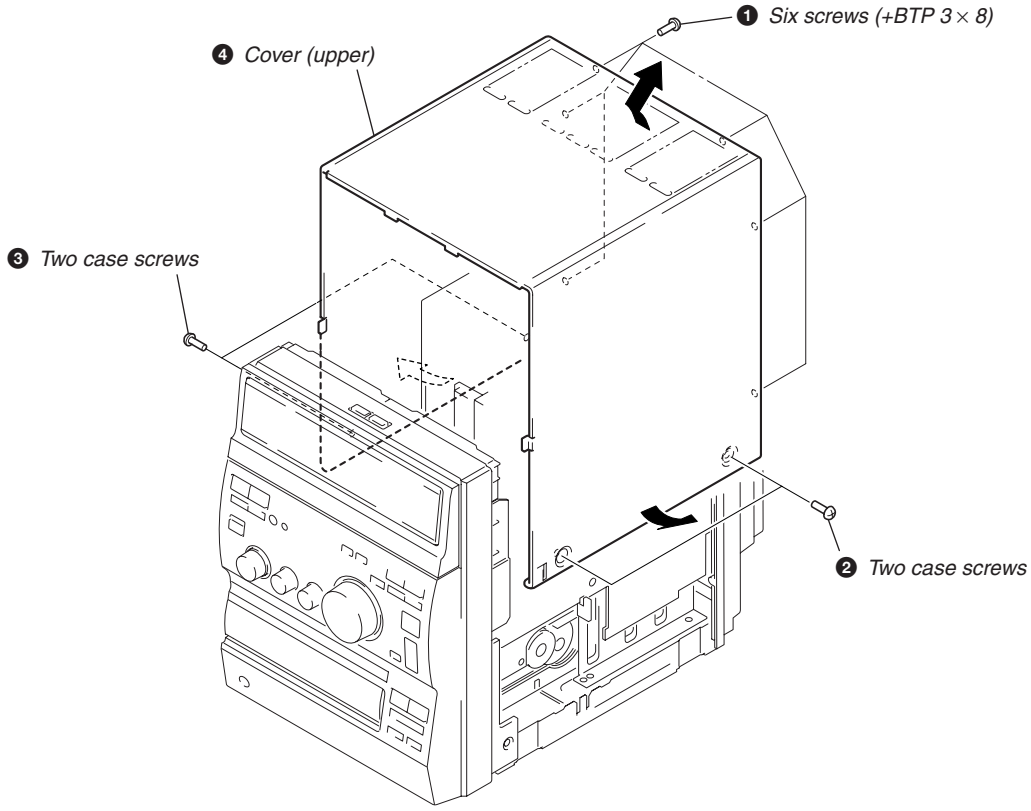
SECTION 3
DISASSEMBLY

• The equipment can be removed using the following procedure.

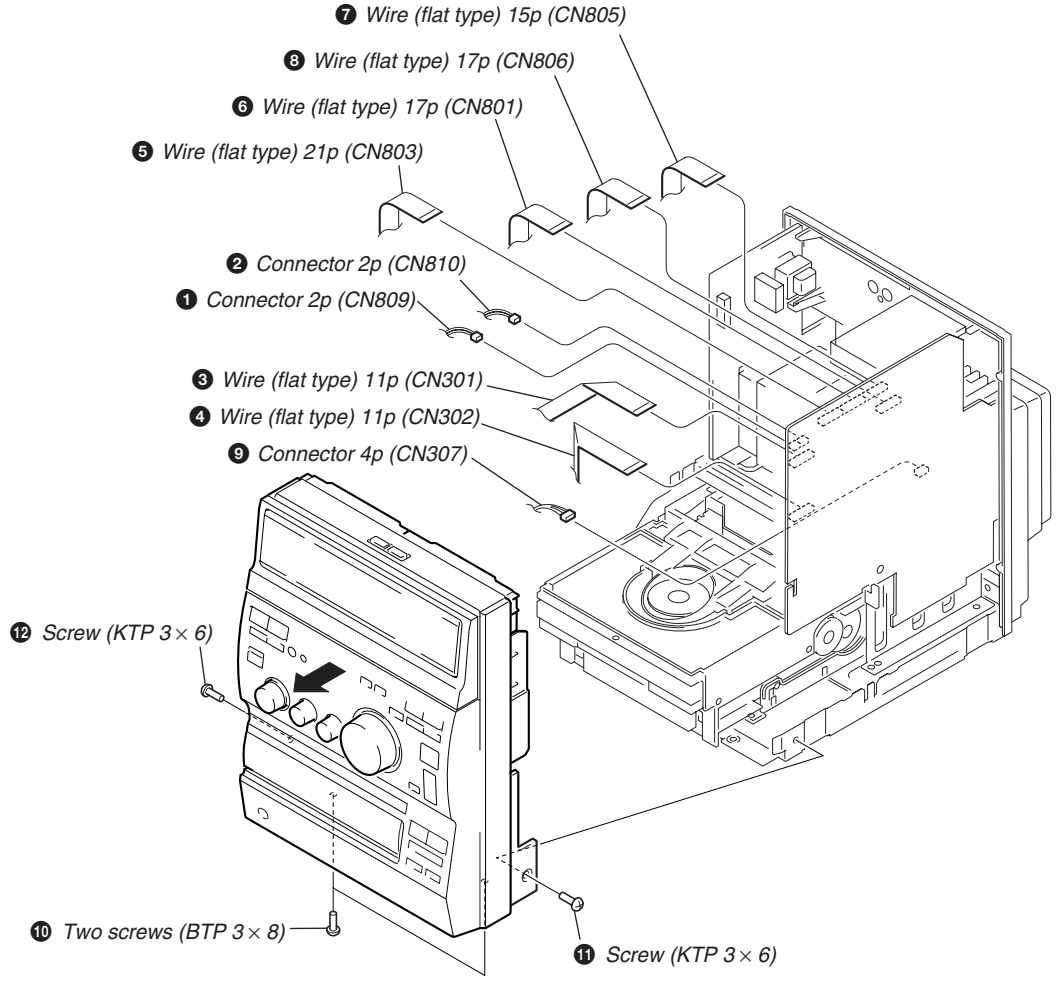


Note : Follow the disassembly procedure in the numerical order given.

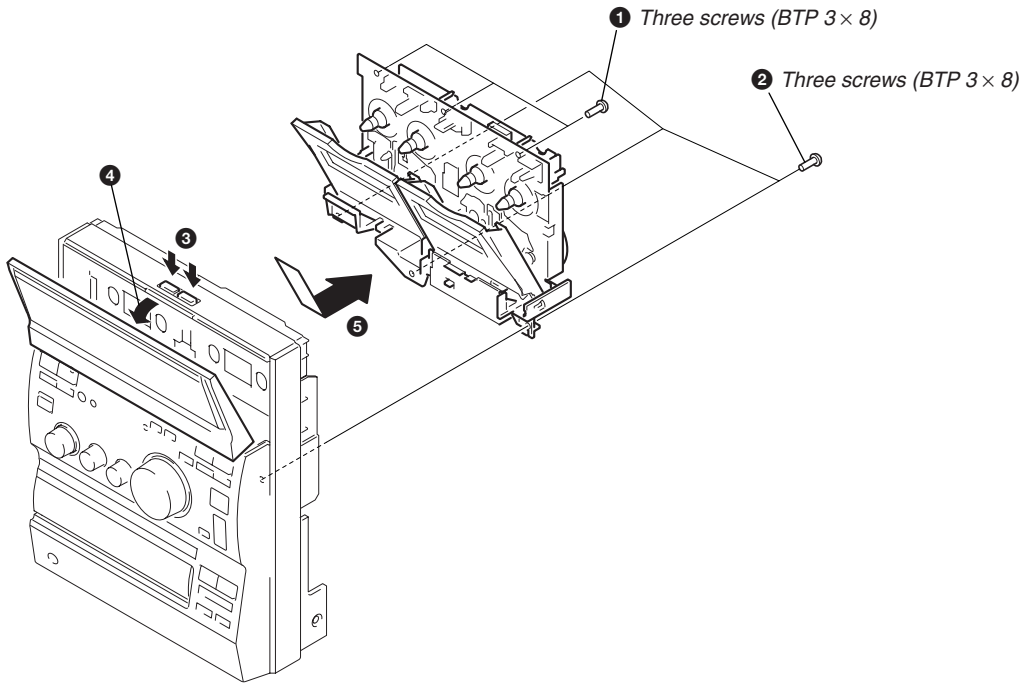
3-1. COVER (UPPER)



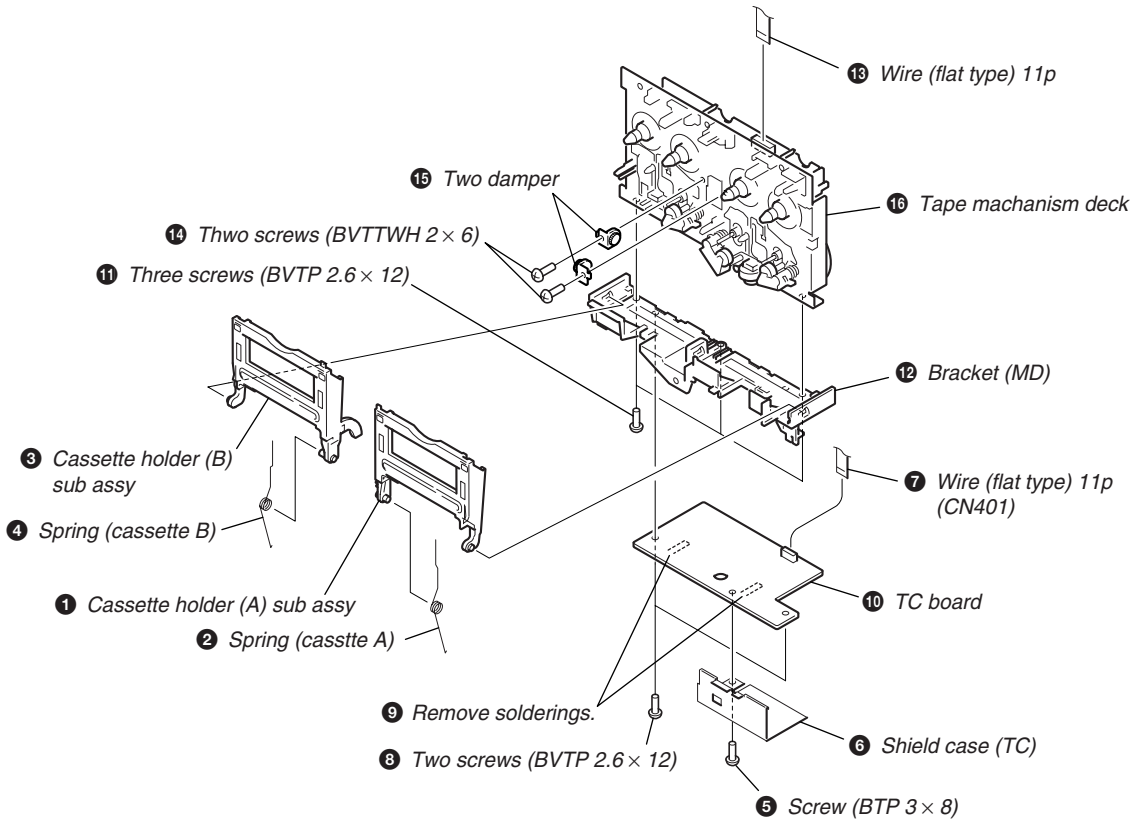
3-2. FRONT PANEL SECTION


❼ Wire (flat type) 15p (CN805)
❽ Wire (flat type) 17p (CN806)
❻ Wire (flat type) 17p (CN801)
❺ Wire (flat type) 21p (CN803)
❷ Connector 2p (CN810)
❶ Connector 2p (CN809)
❸ Wire (flat type) 11p (CN301)
❹ Wire (flat type) 11p (CN302)
❾ Connector 4p (CN307)
⓬ Screw (KTP 3 × 6)
⓫ Screw (KTP 3 × 6)
❿ Two screws (BTP 3 × 8)

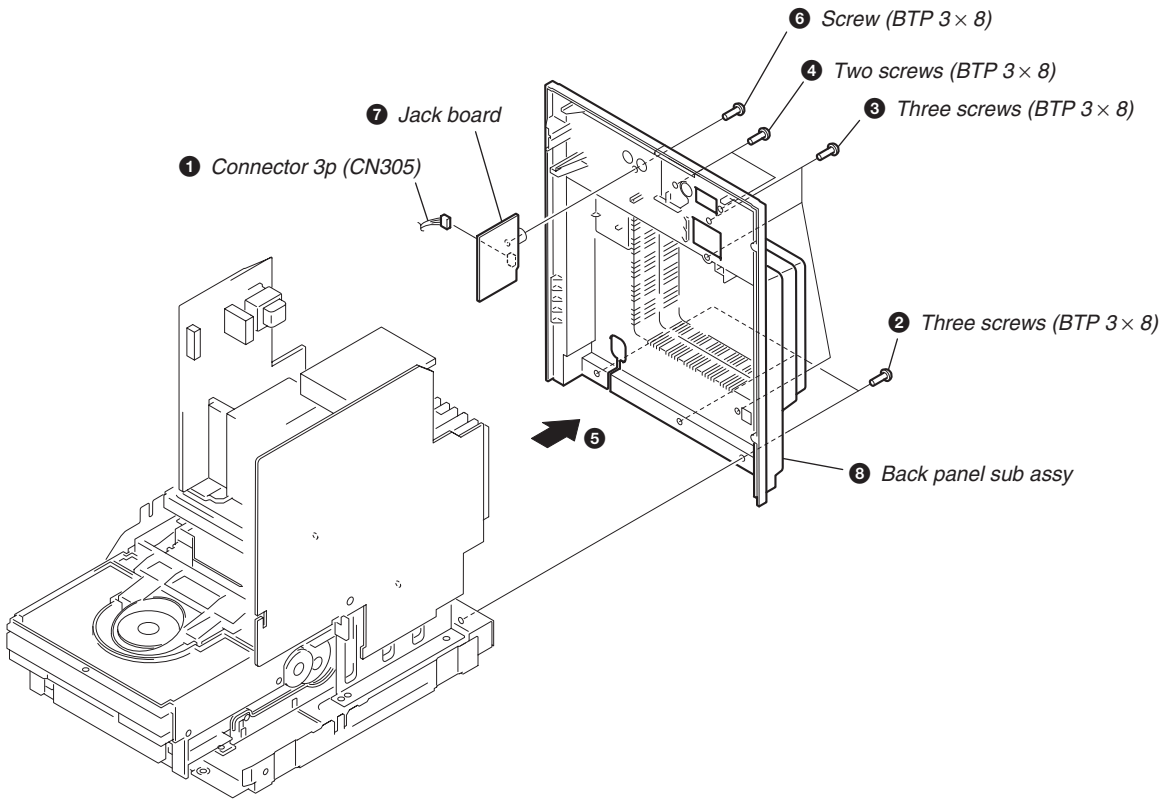
3-3. TAPE MECHANISM DECK-1



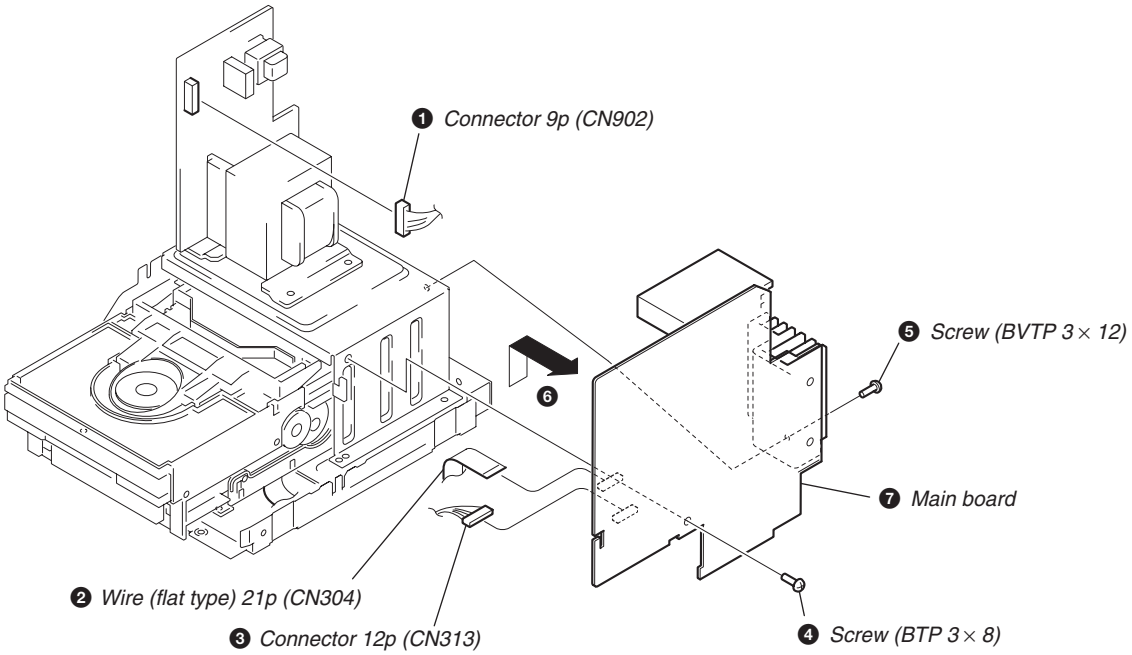
3-4. TAPE MECHANISM DECK-2


⓭ Wire (flat type) 11p
⓯ Two damper
⓰ Tape machanism deck
⓮ Thwo screws (BVTTWH 2 × 6)
⓫ Three screws (BVTP 2.6 × 12)
⓬ Bracket (MD)
❸ Cassette holder (B) sub assy
❼ Wire (flat type) 11p (CN401)
❹ Spring (cassette B)
❿ TC board
❶ Cassette holder (A) sub assy
❷ Spring (casstte A)
❾ Remove solderings.
❻ Shield case (TC)
❽ Two screws (BVTP 2.6 × 12)
❺ Screw (BTP 3 × 8)

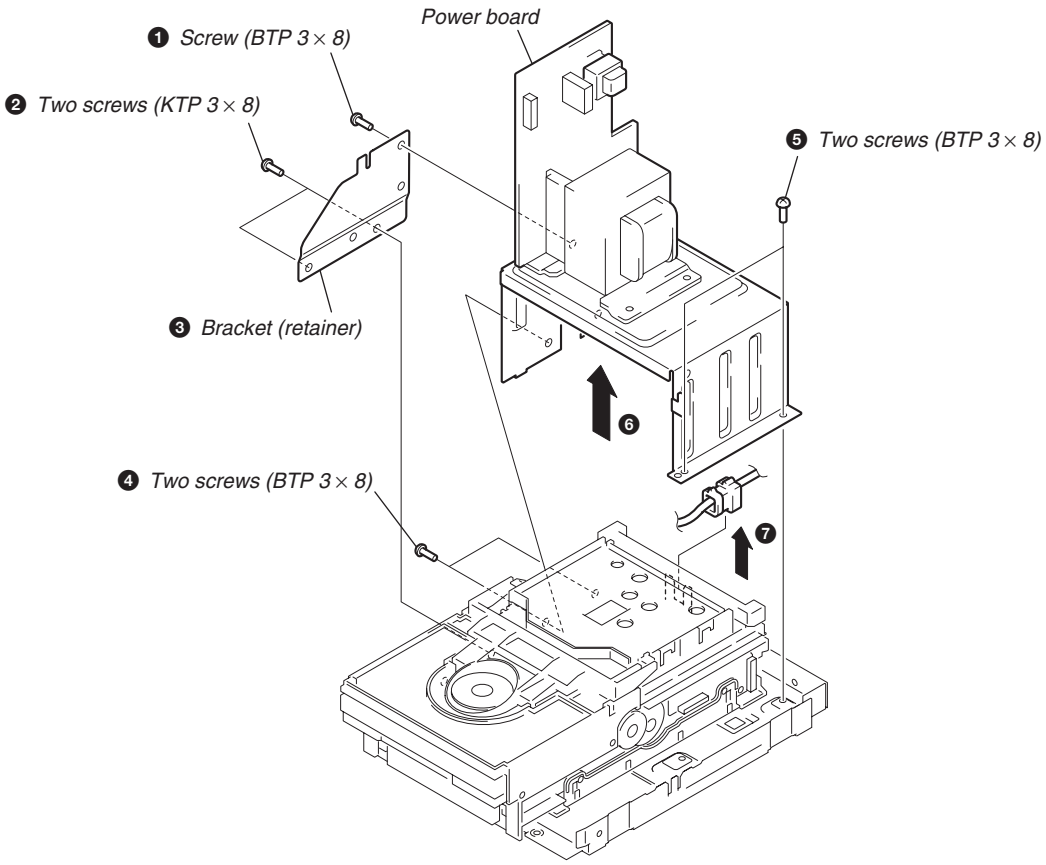
3-5. BACK PANEL SUB ASSY


❻ Screw (BTP 3 × 8)
❹ Two screws (BTP 3 × 8)
❸ Three screws (BTP 3 × 8)
❼ Jack board
❶ Connector 3p (CN305)
❷ Three screws (BTP 3 × 8)
❺
❽ Back panel sub assy

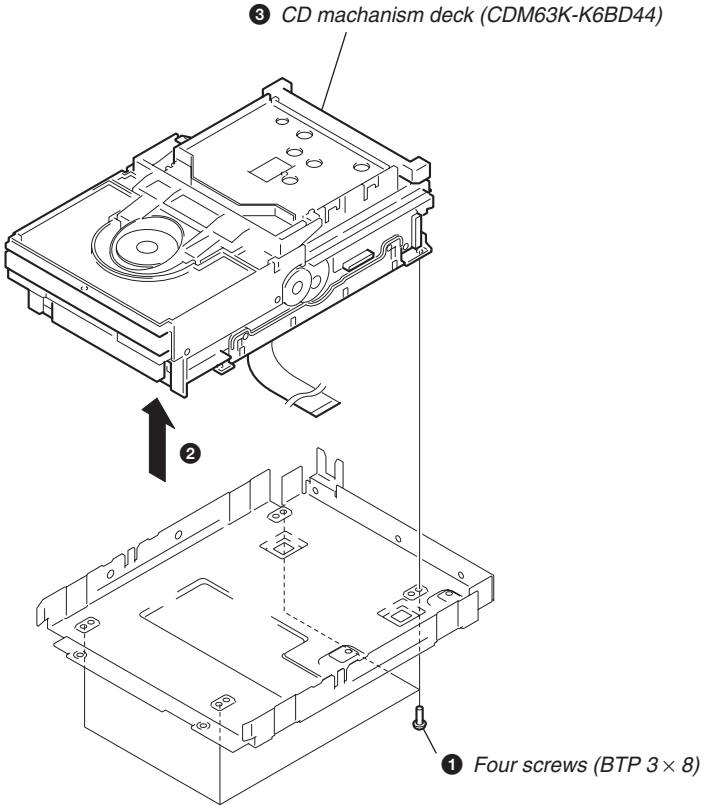
3-6. MAIN BOARD



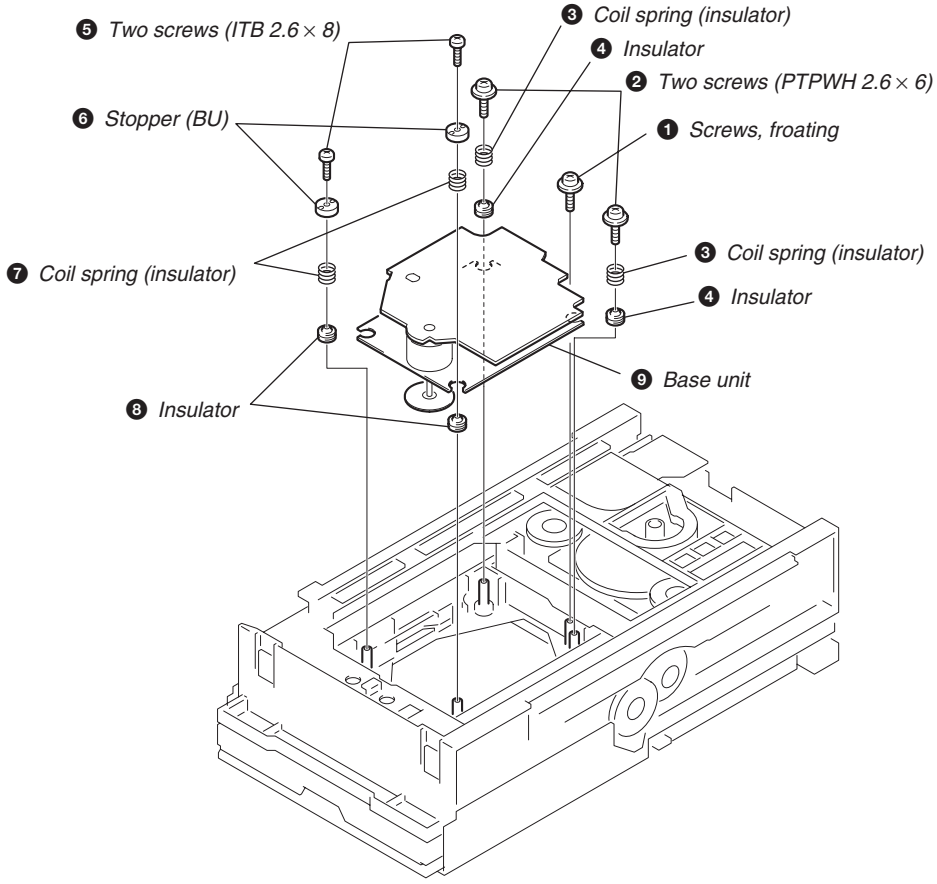
3-7. POWER BOARD



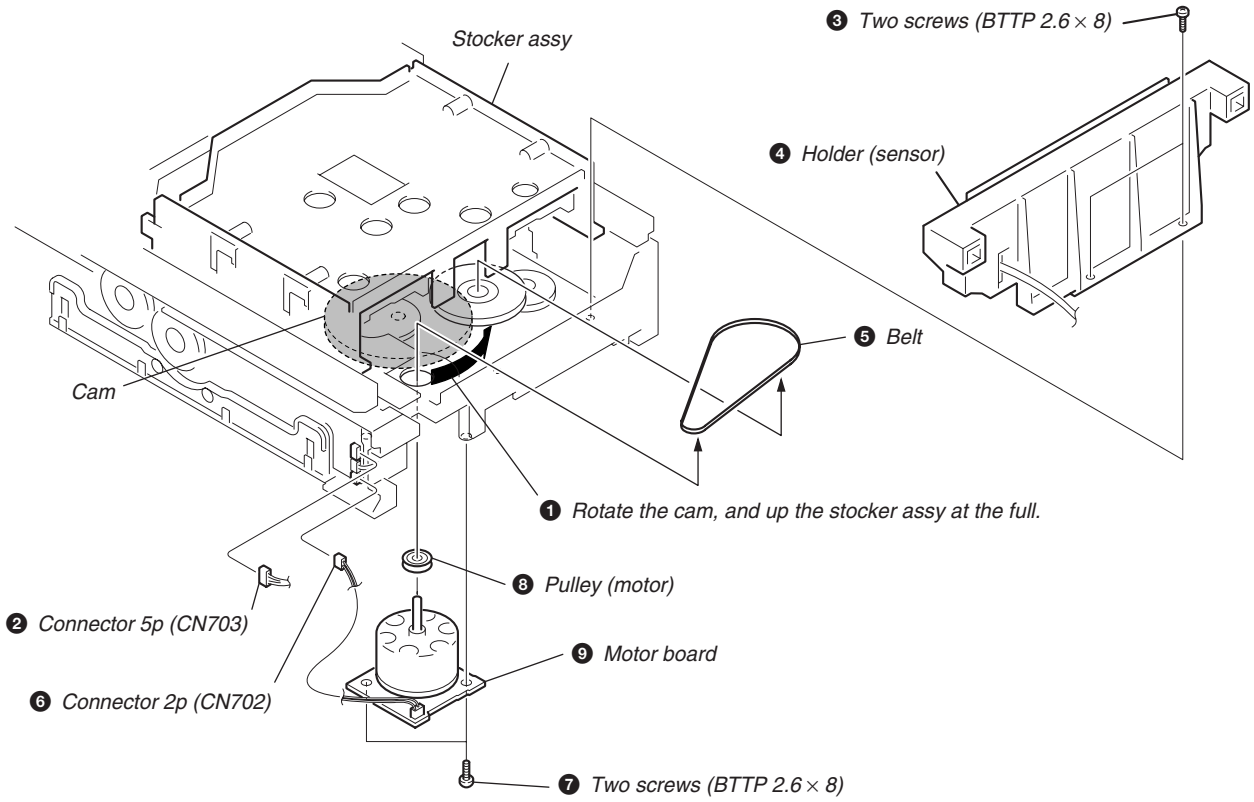
3-8. CD MECHANISM DECK (CDM63K-K6BD44)



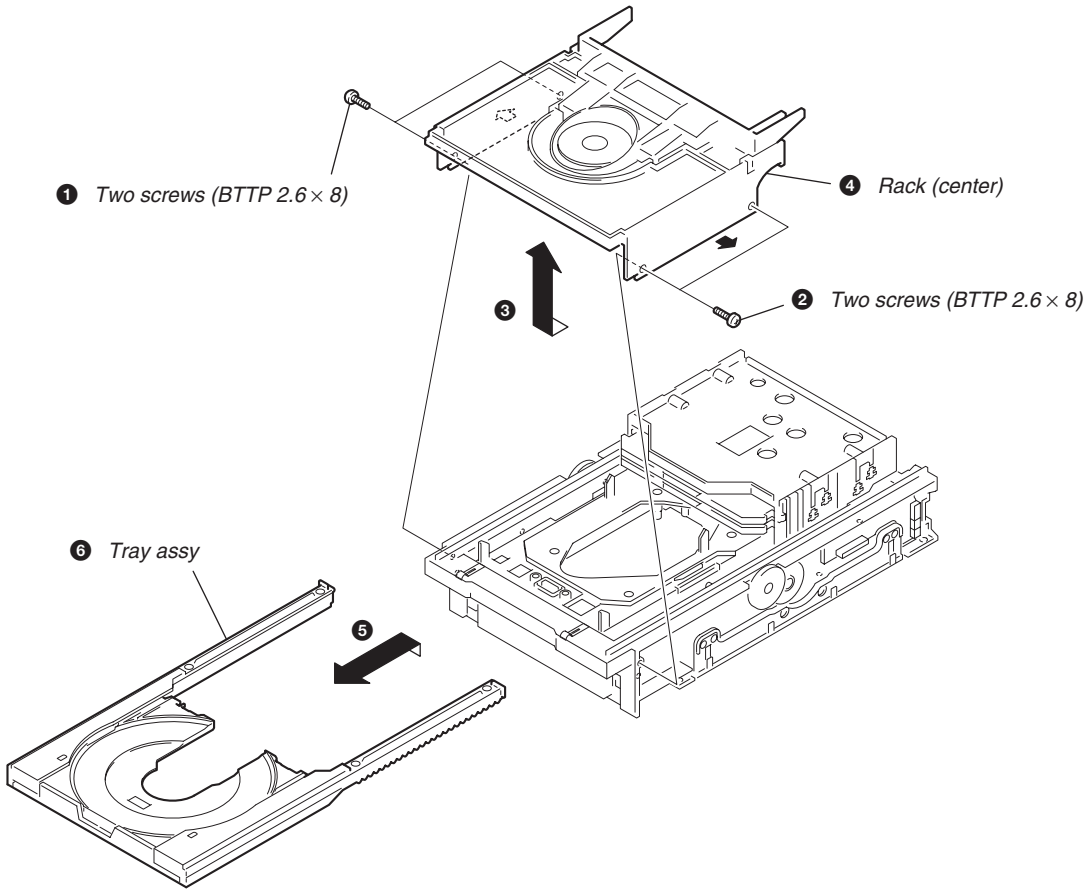
3-9. BASE UNIT (BU-K6BD44)



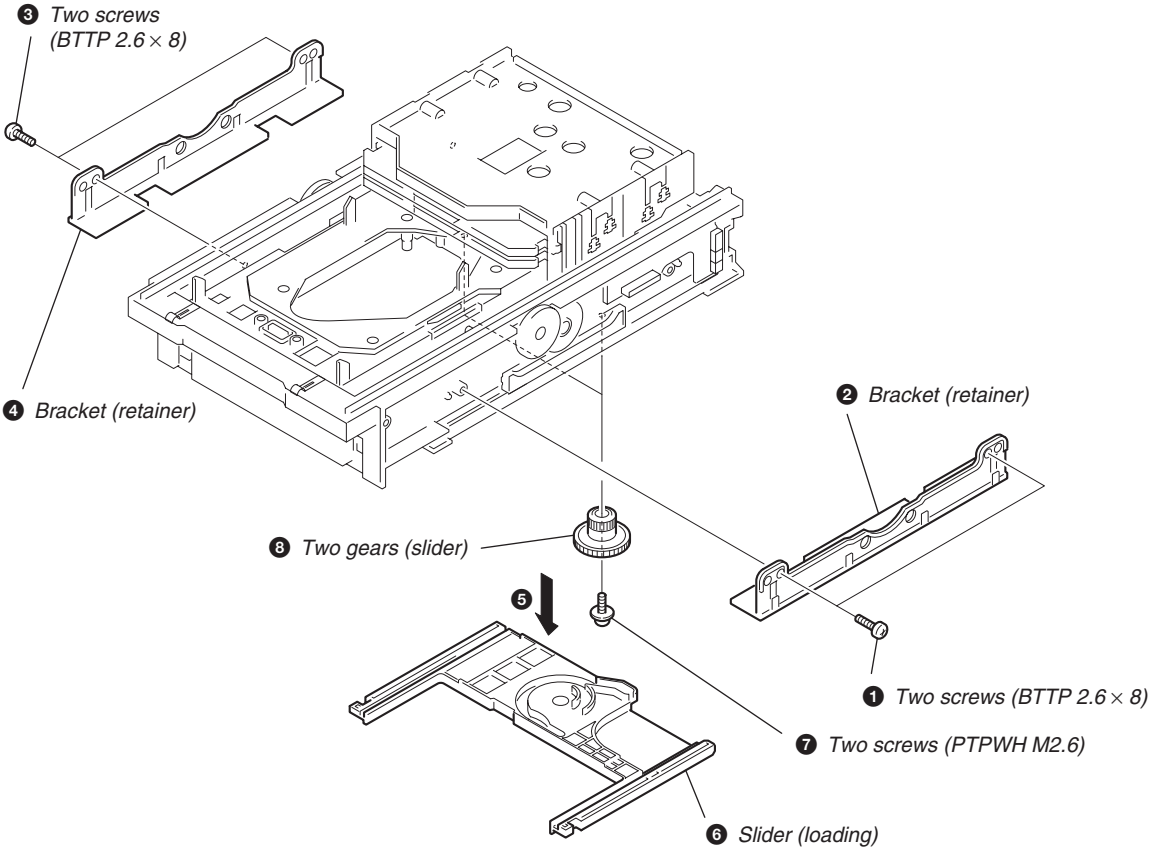
3-10. MOTOR BOARD


Stocker assy
❸ Two screws (BTTP 2.6 × 8)
❹ Holder (sensor)
❺ Belt
Cam
❶ Rotate the cam, and up the stocker assy at the full.
❽ Pulley (motor)
❷ Connector 5p (CN703)
❾ Motor board
❻ Connector 2p (CN702)
❼ Two screws (BTTP 2.6 × 8)

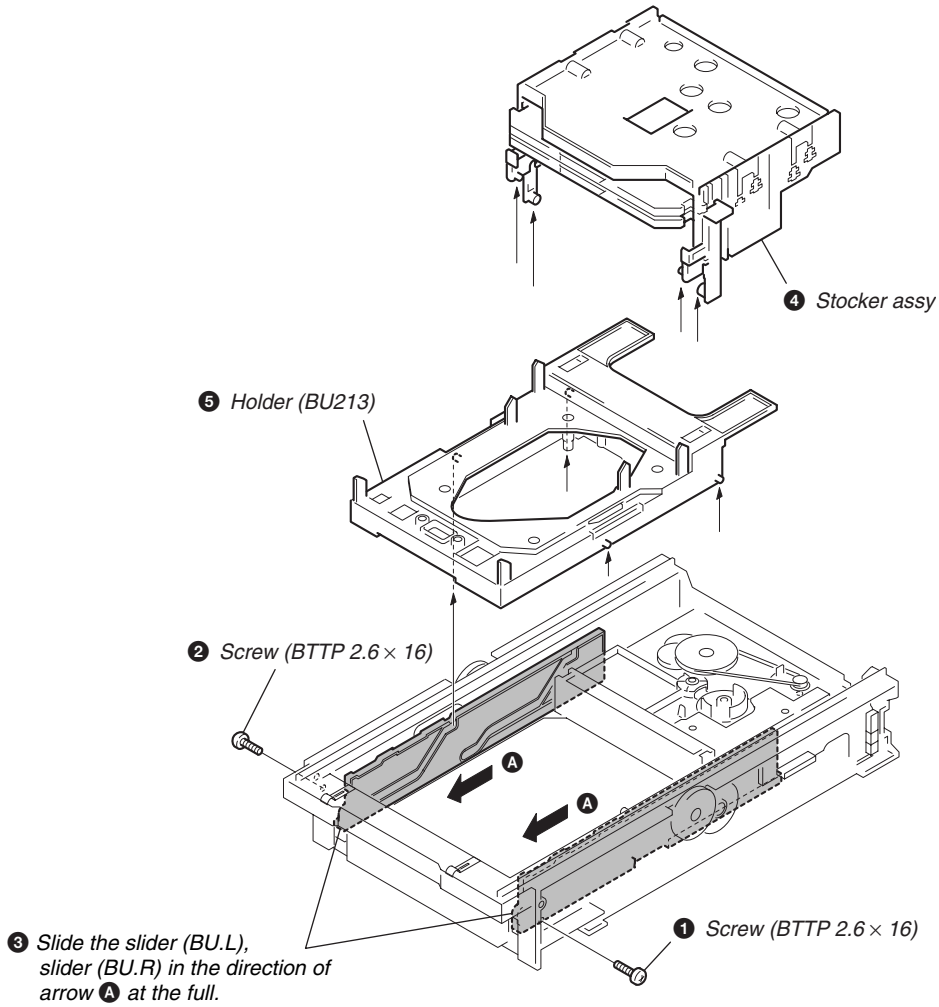
3-11. TRAY ASSY



3-12. SLIDER (LOADING)


❸ Two screws (BTTP 2.6 × 8)
❹ Bracket (retainer)
❷ Bracket (retainer)
❽ Two gears (slider)
❺
❶ Two screws (BTTP 2.6 × 8)
❼ Two screws (PTPWH M2.6)
❻ Slider (loading)

3-13. STOCKER ASSY


❹ Stocker assy
❺ Holder (BU213)
❷ Screw (BTTP 2.6 × 16)
Ⓐ
Ⓐ
❸ Slide the slider (BU.L), slider (BU.R) in the direction of arrow Ⓐ at the full.
❶ Screw (BTTP 2.6 × 16)

SECTION 4
TEST MODE

[CD Ship Mode]

- This mode moves the optical pick-up to the position durable to vibration. Use this mode when returning the set to the customer after repair.

Procedure:

1. Press I/⏻ button to turn the set ON.
2. Press three buttons ■ (TAPE A), ■ (CD), and ⏏ (CD1) simultaneously.
3. After the "STANDBY" display blinks six times, a message "LOCK" is displayed on the fluorescent indicator tube, and the CD ship mode is set.

[GC Test Mode]

- This mode is used to check the software version, FL tube, LED, keyboard and VACS.

Procedure:

1. Press three buttons I/⏻, ■ (TAPE A), and ■ (CD) simultaneously.
2. LEDs and fluorescent indicator tube are all turned on.
3. When you want to enter the software version display mode, press CD 1. The model number and destination are displayed.
4. Each time CD 1 is pressed, the display changes starting from MC version, GC version, CD version, CDD version, CDM version, BD version, ST version, TA version, TM version, TC version and MD version in this order.
5. Press CD 2 button, and the key check mode is activated.
6. In the key check mode, the fluorescent indicator tube displays "K 0 J 0 V 0". Each time a button is pressed, "K 0" value increases. However, once a button is pressed, it is no longer taken into account.
   "V 0" value increases like 1, 2, 3 ... if rotating VOLUME knob in "+" direction, or it decreases like 0, 9, 8 ... if rotating in "–" direction.
7. To exit from this mode, press three buttons in the same manner as step 1, or disconnect the power cord.

[CD Service Mode]

- This mode can run the CD sled motor freely. Use this mode, for instance, when cleaning the optical pick-up.

Procedure:

1. Press I/⏻ button to turn the set ON.
2. Select the function "CD".
3. Press three buttons ■ (TAPE A), ■ (CD), and CD 2 simultaneously.
4. The CD service mode is selected.
5. With the CD in stop status, turn the shuttle knob clockwise to move the optical pick-up to outside track, or turn the shuttle knob counter-clockwise to inside track.
6. To exit from this mode, perform as follows:
   1) Move the optical pick-up to the most inside track.
   2) Press three buttons in the same manner as step 2.

Note:
- Always move the optical pick-up to most inside track when exiting from this mode. Otherwise, a disc will not be unloaded.
- Do not run the sled motor excessively, otherwise the gear can be chipped.

[CD Ship (Memory Clear) Mode]

- Set the CD ship mode and set the default setup when shipped from the factory at the next AC power on.

Procedure:

1. Press I/⏻ button to turn the set ON.
2. Select the function "CD ".
3. Press three buttons ■ (TAPE A), ■ (CD), and ⏏ (CD1) simultaneously.
4. After the "STANDBY" display blinks six times, a message "LOCK" is displayed on the fluorescent indicator tube, and the CD ship mode is set.

SECTION 5
ELECTRICAL ADJUSTMENTS

DECK SECTION | 0 dB=0.775 V

Note: Confirm each contents of this section first of all. If the results are not satisfied, do the adjustment.

1. Demagnetize the record/playback head with a head demagnetizer.
2. Do not use a magnetized screwdriver for the adjustments.
3. After the adjustments, apply suitable locking compound to the parts adjust.
4. The adjustments should be performed with the rated power supply voltage unless otherwise noted.
5. The adjustments should be performed in the order given in this service manual. (As a general rule, playback circuit adjustment should be completed before performing recording circuit adjustment.)
6. The adjustments should be performed for both L-CH and R-CH.
7. Switches and controls should be set as follows unless otherwise specified.

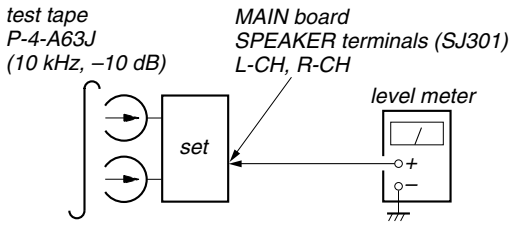
• Test Tape

Tape	Signal	Used for
P-4-A63J	10 kHz, –10 dB	Azimuth Adjustment
WS-48A	3 kHz, 0 dB	Tape Speed Adjustment
P-4-L300	315 Hz, 0 dB	Level Adjustment

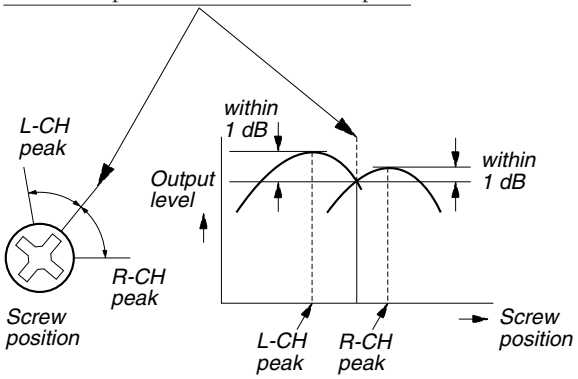
Record/Playback Head Azimuth Adjustment

Procedure:

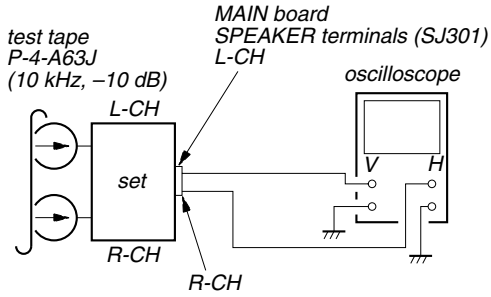
1. Mode: Playback

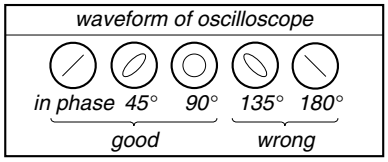


2. Turn the adjustment screw and check output peaks. If the peaks do not match for L-CH and R-CH, turn the adjustment screw so that outputs match within 1dB of peak.



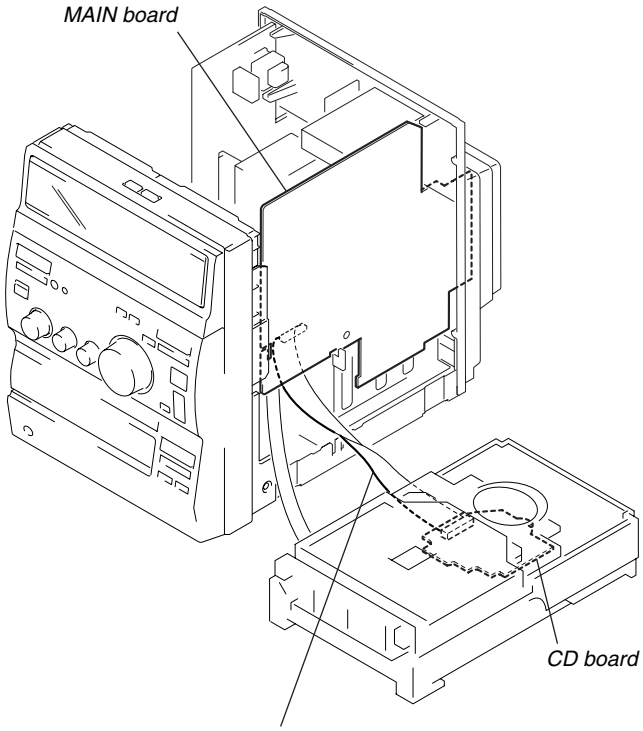
3. Mode: Playback





4. Repeat step 1 to 3 in playback (REV) mode.
5. After the adjustments, apply suitable locking compound to the pats adjusted.

Adjustment Location:



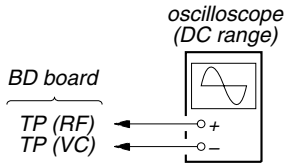
Connect jig (extension cable J-2501-011-B) to the MAIN board (CN304) and CD board (CN101).

CD SECTION

Note:

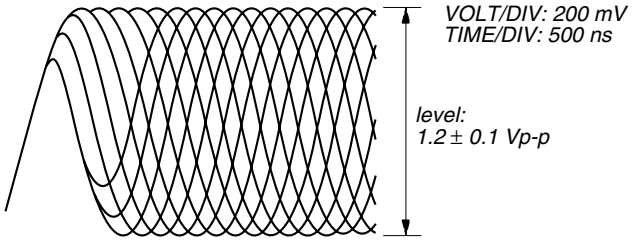
1. CD Block is basically constructed to operate without adjustment.
2. Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
3. Use an oscilloscope with more than 10 MΩ impedance.
4. Clean the object lens by an applicator with neutral detergent when the signal level is low than specified value with the following checks.
5. Check the focus bias check when optical block is replaced.

Focus Bias Check



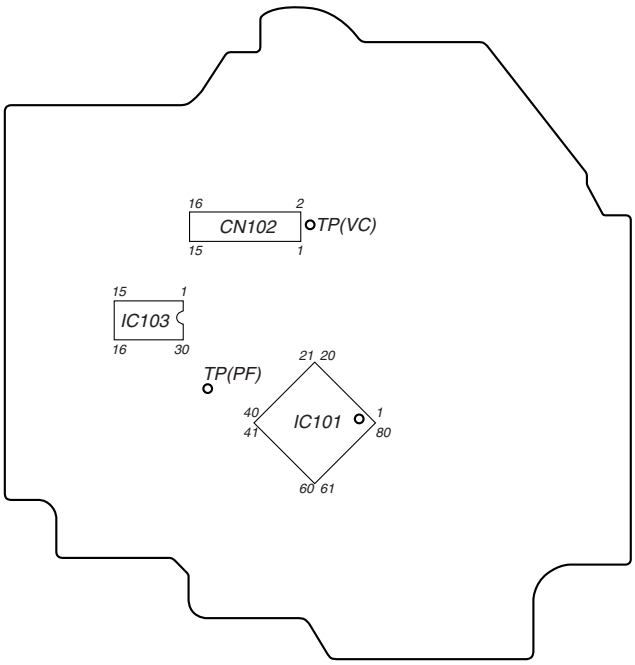
Procedure :

1. Connect oscilloscope to TP (RF) and TP (VC) on the CD board.
2. Press the I/⏻ button to turn the power on, and press the ⏏ (CD) button to open the CD disc tray.
3. Put disc (YEDS-18) in and press the ▶II (CD) button to play-back.
4. Confirm that oscilloscope waveform is as shown in the figure below. (eye pattern)
   A good eye pattern means that the diamond shape (◇) in the center of the waveform can be clearly distinguished.



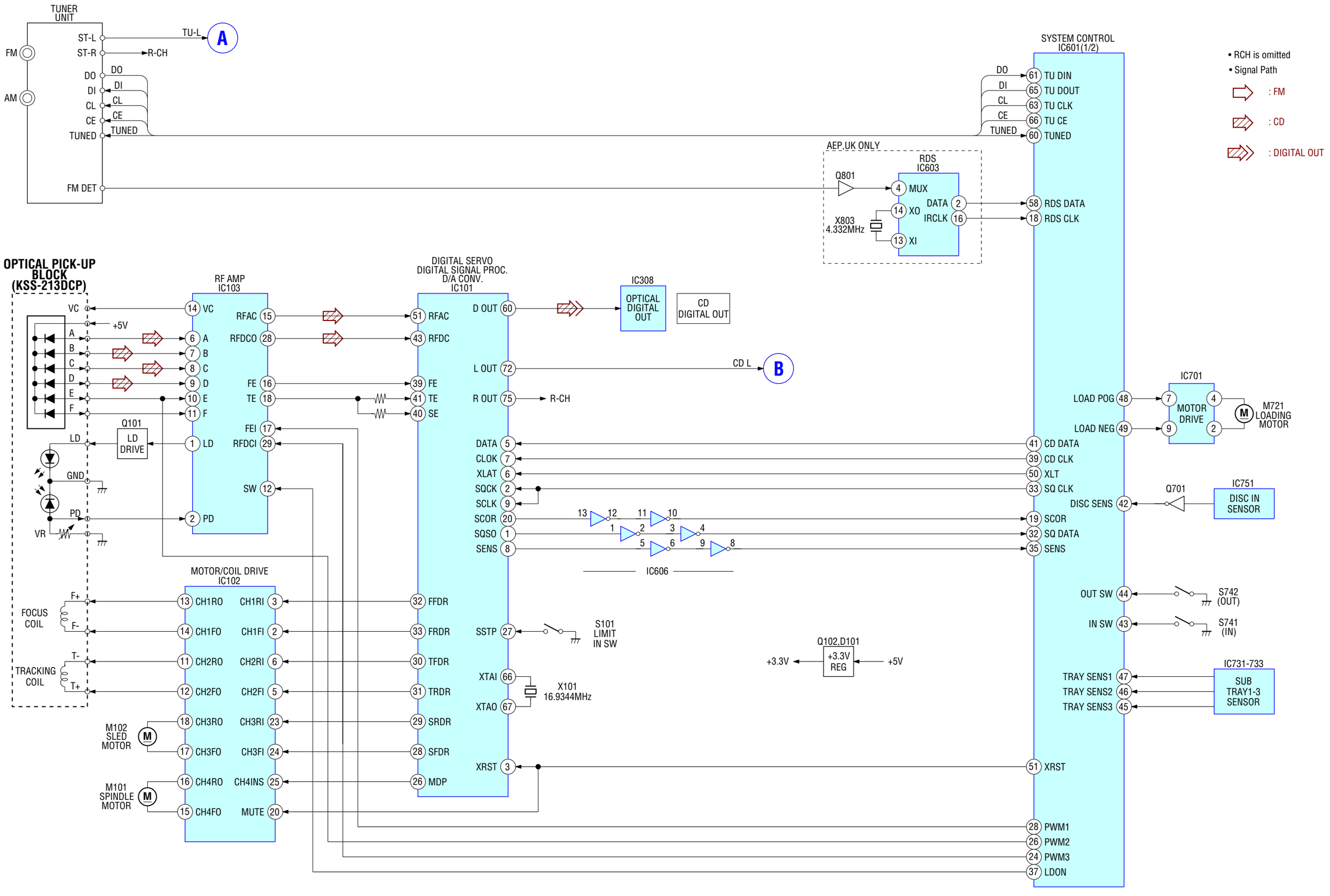
Checking Location:

– CD BOARD (Conductor Side) –

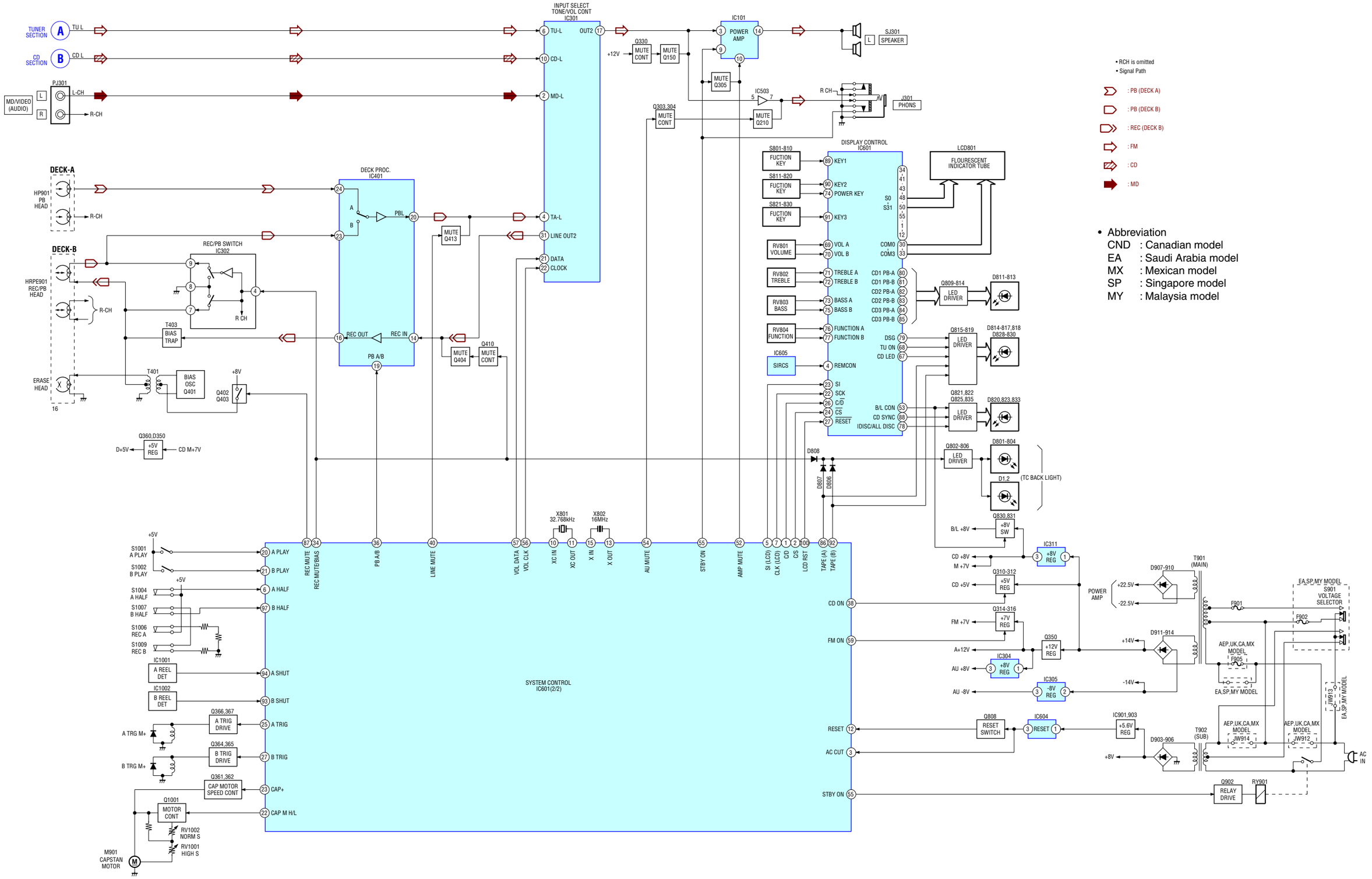


SECTION 6
DIAGRAMS

6-1. BLOCK DIAGRAMS CD SECTION



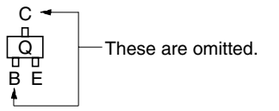
6-2. BLOCK DIAGRAMS MAIN SECTION



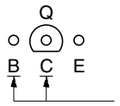
6-3. NOTE FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

Note on Printed Wiring Boards:

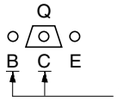
- ○——— : parts extracted from the component side.
- ——— : parts extracted from the conductor side.
- ⬚← : indicates side identified with part number.
- ▬ : Pattern from the side which enables seeing.
- Indication of transistor.



These are omitted.



These are omitted.



These are omitted.

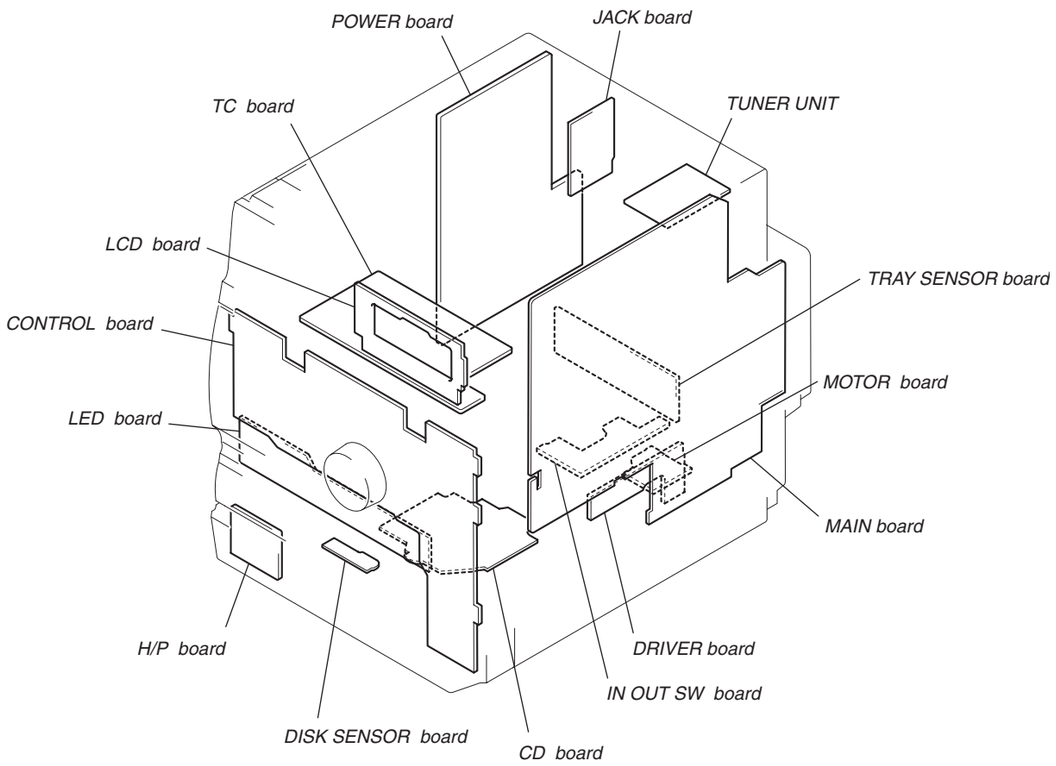
Note on Schematic Diagram:

- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- ▭ : panel designation.

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

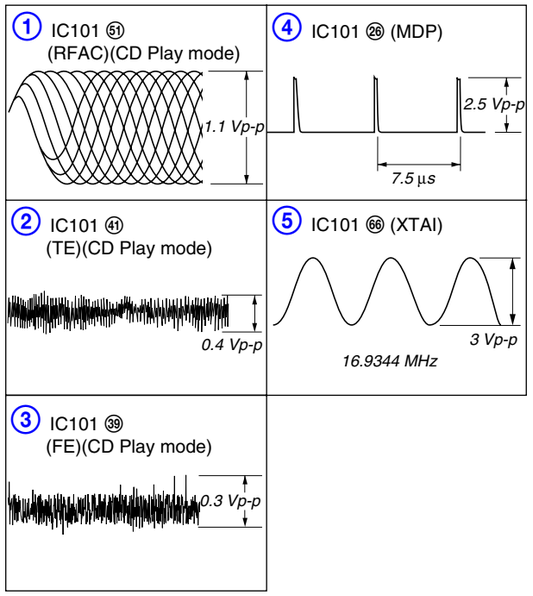
- ▬ : B+ Line.
- ▬ ▬ ▬ : B– Line.
- ▭ : adjustment for repair.
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  - ⇨ : TUNER
  - ⇨ : TAPE PLAY (DECK A)
  - ⇨ : TAPE PLAY (DECK B)
  - ⇨ : TAPE REC
  - ⇨ : CD PLAY (ANALOG)
  - ⇨ : CD PLAY (DIGITAL)
- Abbreviation
  - CND : Canadian model
  - EA : Saudi Arabia model
  - MX : Mexican model
  - SP : Singapore model
  - MY : Malaysia model

- **CIRCUIT BOARDS LOCATION**

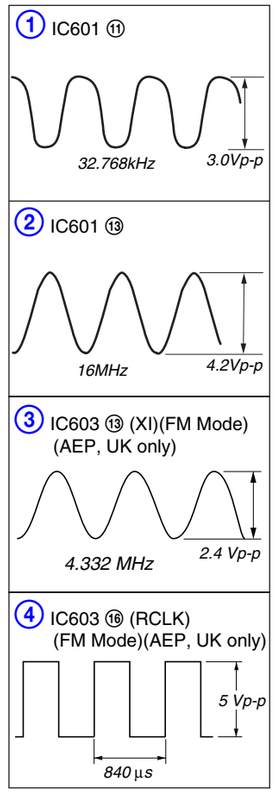


- **WAVEFORMS**

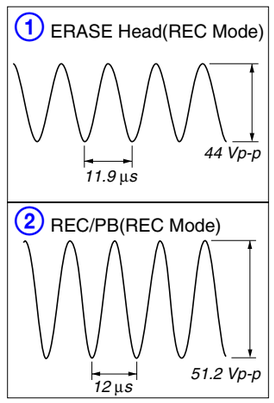
CD SECTION



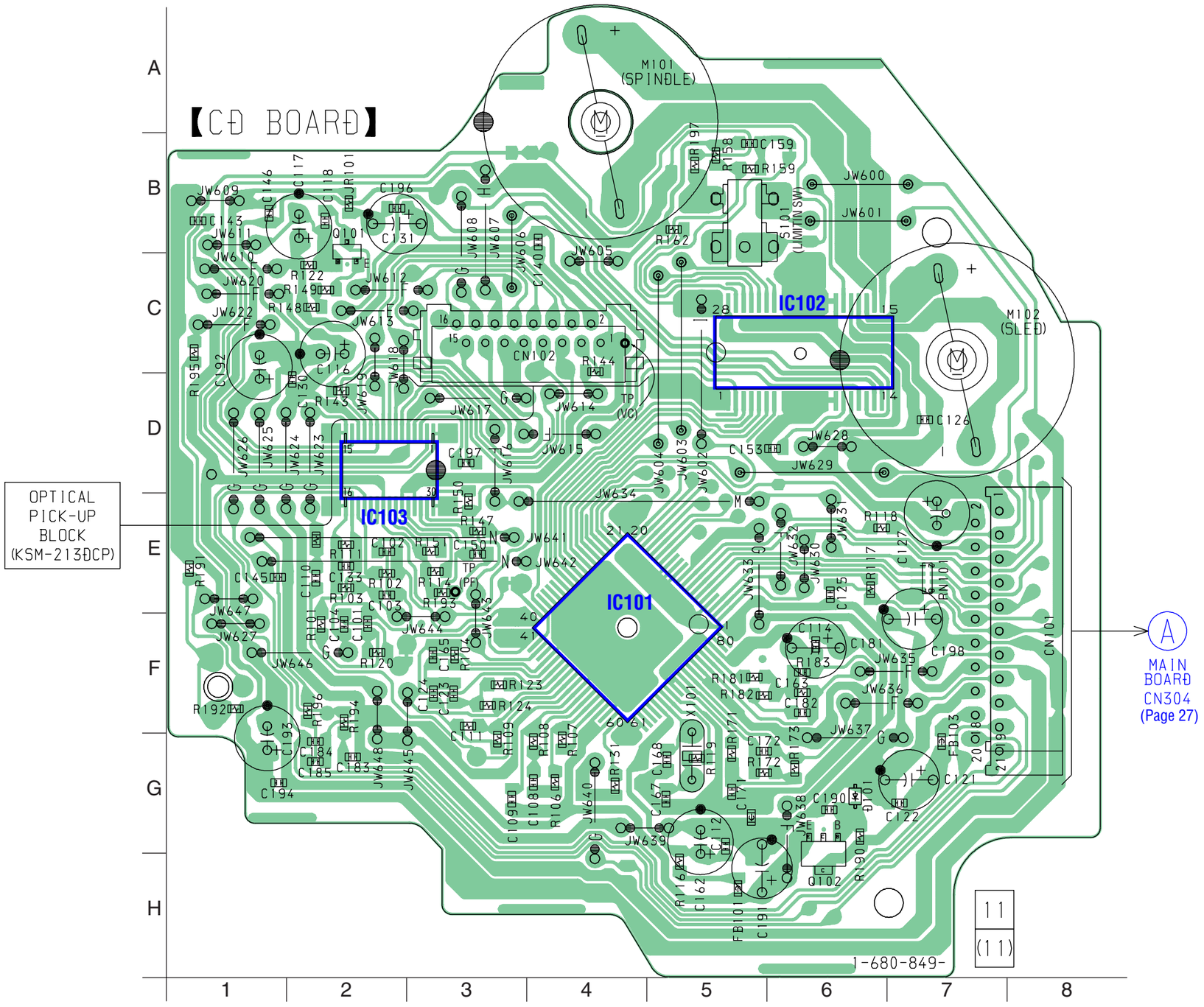
MAIN SECTION



TC SECTION



6-4. PRINTED WIRING BOARD CD SECTION • See page 19 for Circuit Boards Location.



• **Semiconductor Location**

Ref. No.	Location
IC101	F-4
IC102	C-6
IC103	D-2
Q101	B-2
Q102	G-6

6-5. SCHEMATIC DIAGRAM CD SECTION • See page 19 for Wavefoms. • See page 38, 39 for IC Block Diagrams.

【CD BOARD】

IC101 CXD3017Q — DIGITAL SERVO / DIGITAL SIGNAL PROCESSOR / D/A CONVERTER — IC B/D

IC103 CXA2581N — RF AMP — IC B/D

IC102 BA5974FP-E — MOTOR/COIL DRIVE — IC B/D

Q101 2SB710 — Q101:LD DRIVE

Q102 2SD1664 — +3.3V REG

D101 UDZ-TE-17-3.9B

X101 16.9344

OPTICAL PICK-UP BLOCK (KSM-213DCP)

M102 (SLED)

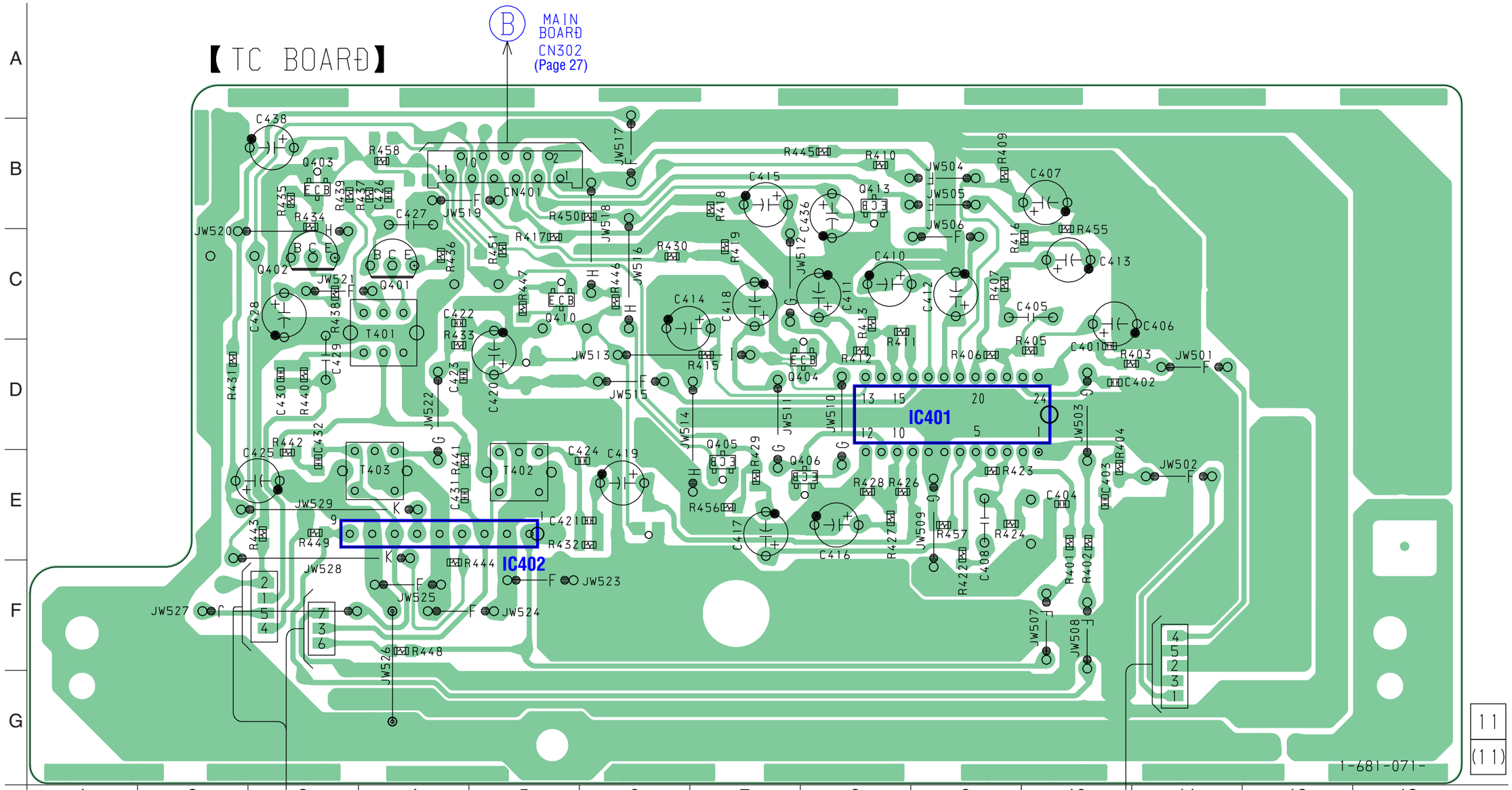
M101 (SPINDLE)

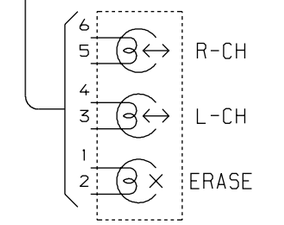
TO MAIN BOARD (2/3) CN304 (Page 25)

CN101 21P

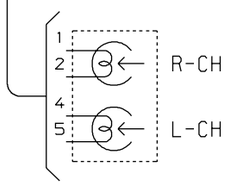
CN102 16P

6-6. PRINTED WIRING BOARD TC SECTION • See page 19 for Circuit Boards Location.





B DECK
RECORD/PLAYBACK/ERASE



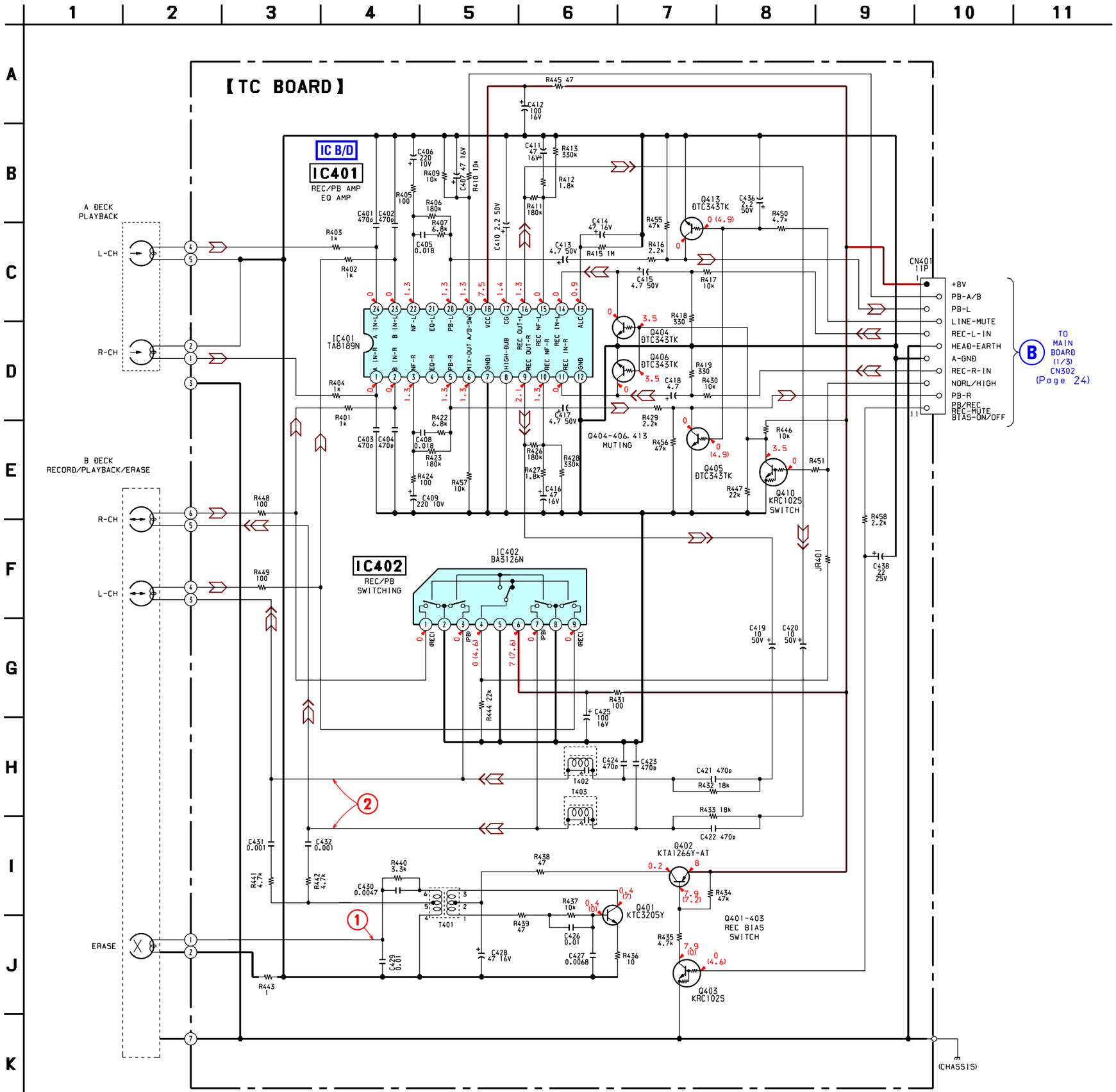
A DECK PLAYBACK

• **Semiconductor Location**

Ref. No.	Location
IC401	D-9
IC402	E-4
Q401	C-4
Q402	C-3
Q403	B-3
Q404	C-8
Q405	E-7
Q406	E-8
Q410	C-5
Q413	B-8

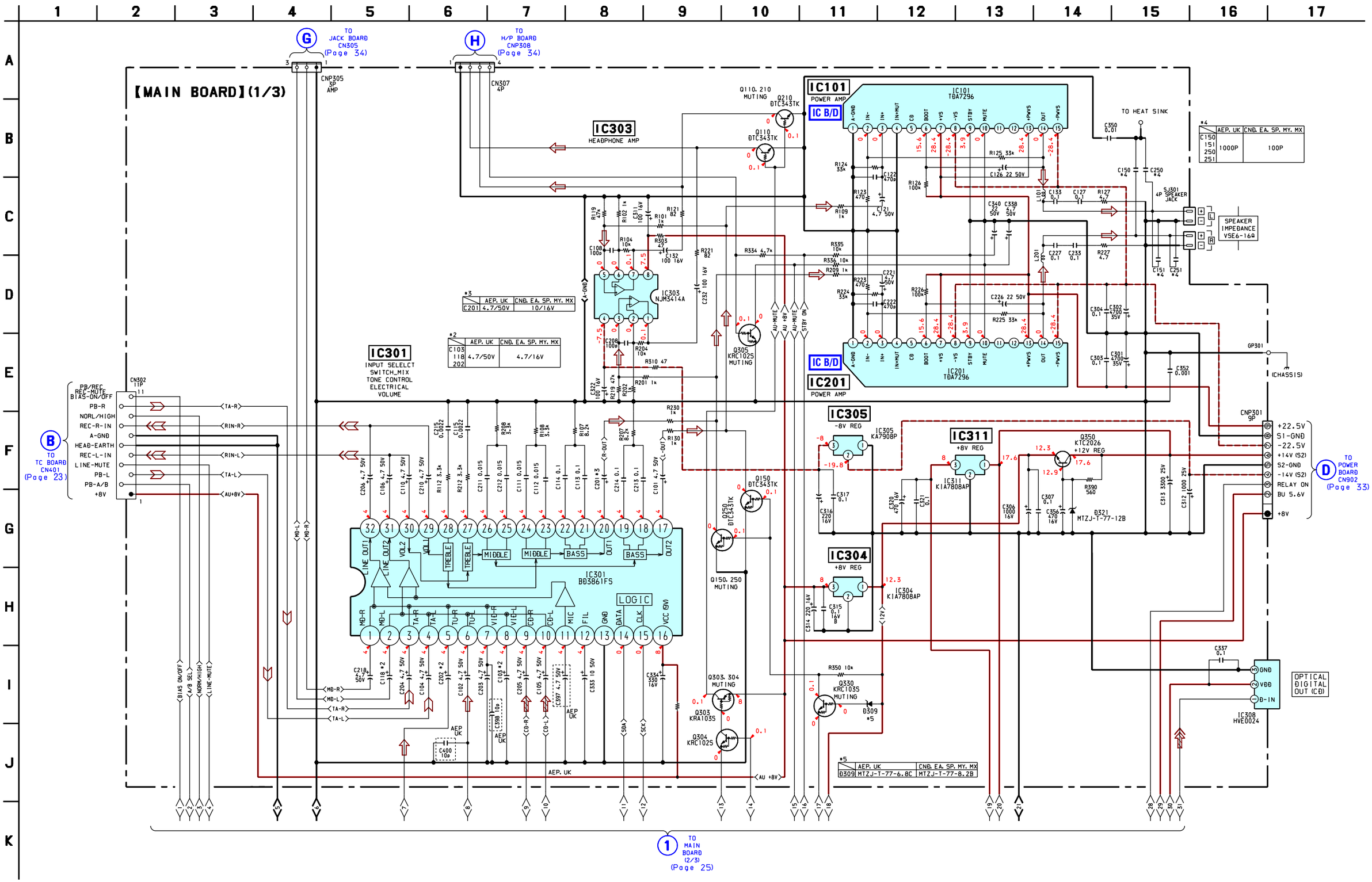
6-7. SCHEMATIC DIAGRAM TC SECTION

• See page 19 for Wavefoms. • See page 38 for IC Block Diagrams.

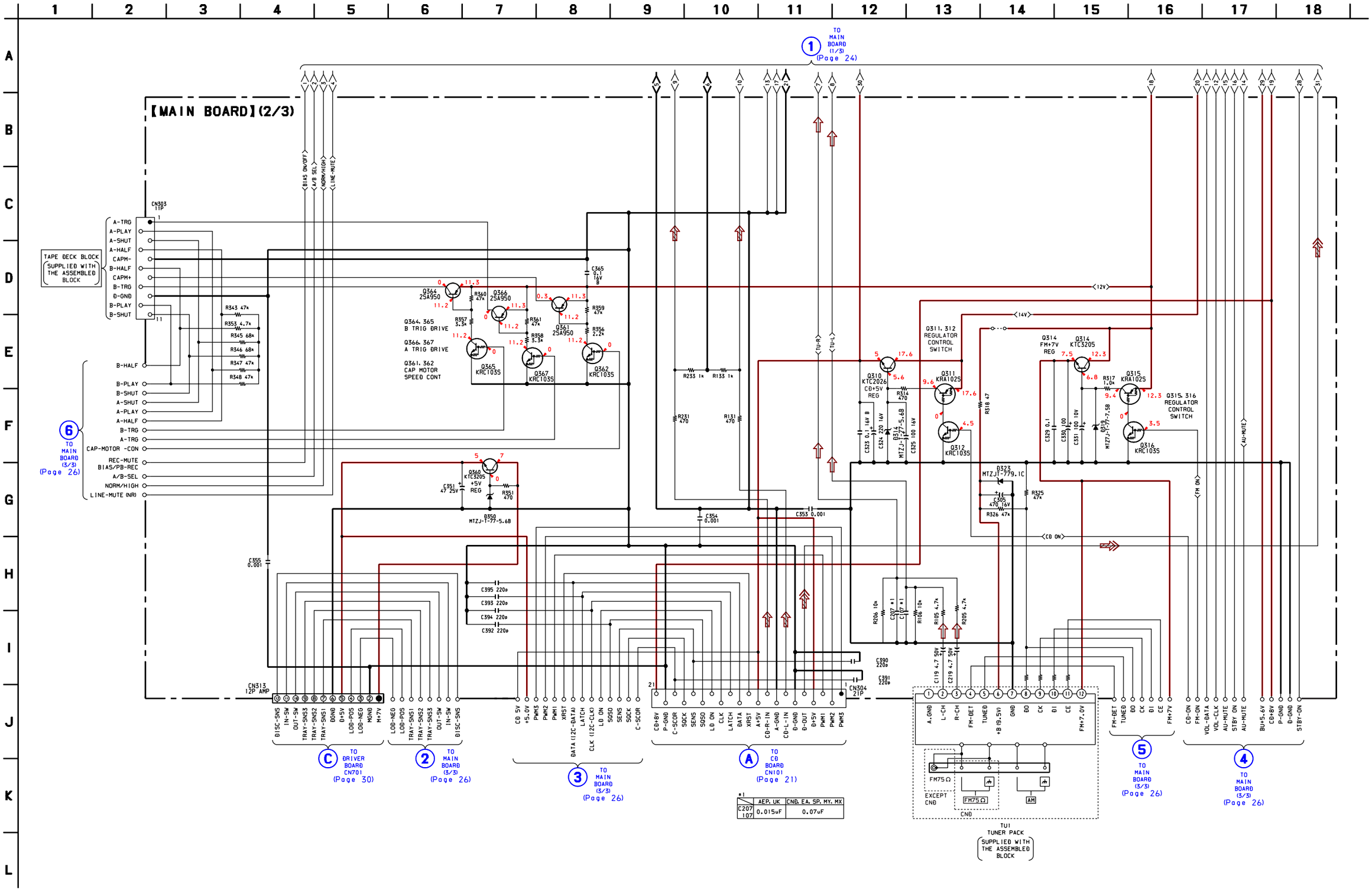


6-8. SCHEMATIC DIAGRAM MAIN SECTION (1/3)

• See page 37 for IC Block Diagrams.



6-9. SCHEMATIC DIAGRAM MAIN SECTION (2/3)



6-10. SCHEMATIC DIAGRAM MAIN SECTION (3/3)

• See page 19 for Wavefoms. • See page 37 for IC Block Diagrams. • See page 35 for IC Pin Function Description.

【MAIN BOARD】
(3/3)

IC602
LCD DRIVE
IC602
μPD72255
IC B/D

IC601
SYSTEM CONTROLLER
IC601
M30622M0A-A67FP

IC603
RDS DECODER
IC B/D
IC603 BU1924F

IC604
RESET
IC604
PST592C

IC606
AMP
IC606
TC74VHCT04AFT

Q801 2SC2412K DET AMP
Q802 KTA1266Y-AT
Q803 KRC102S
Q804 KRC102S
Q805 KTA1266Y-AT
Q806 KRC102S
Q802-806 LED DRIVER
Q808 RESET SWITCH 2SC2412
Q820 KTA1266Y-AT
Q830, 831 +8V 5W KRC102S

D801 1SS133T-77
D802 1SS133T-77
D803 1SS133T-77
D804 1SS133T-77
D805 MTZJ4.3B-177
D806 1SS133T-77
D807 1SS133T-77
D808 1SS133T-77
D809 1SS133T-77
D810 1ES2
D825 1SS133T-77
D827 1SS133T-77

TO LCD BOARD CN804 (Page 34) — I
TO LCD BOARD CN802 (Page 34) — J
TO MAIN BOARD (2/3) (Page 25) — 5
TO MAIN BOARD (2/3) (Page 25) — 6
TO MAIN BOARD (2/3) (Page 25) — 3
TO MAIN BOARD (2/3) (Page 25) — 2
TO MAIN BOARD (2/3) (Page 25) — 4
TO CONTROL BOARD CN807 (Page 29) — E
TO CONTROL BOARD CN808 (Page 29) — F

CN805 21P
CN801 17P
CN809 2P
CN810 2P
CN805 15P
CN806 17P

TC-BACK LIGHT
TC-BACK LIGHT

AEP, UK

RDS-DATA

B-HALF
B-PLAY
B-SHUT
A-SHUT
A-HALF
A-PLAY
B-TRG
A-TRG
CAP-MOTOR -CON
A/B-SEL
NORM/HIGH
REC+MUTE
BA1157FB-REC
LINE-MUTE

FM ON
VOL DATA
VOL CLK
STBY ON
AU-MUTE
STBY ON

TU CE
TU DI
TU CK
TU DO
TUNED
RDS DATA

CD 5V
C-SCOR
SQCK
SENS
SQSO
LD ON
DATA
LATCH
CLK
XRST
PWM3
PWM2
PWM1
+5.6V

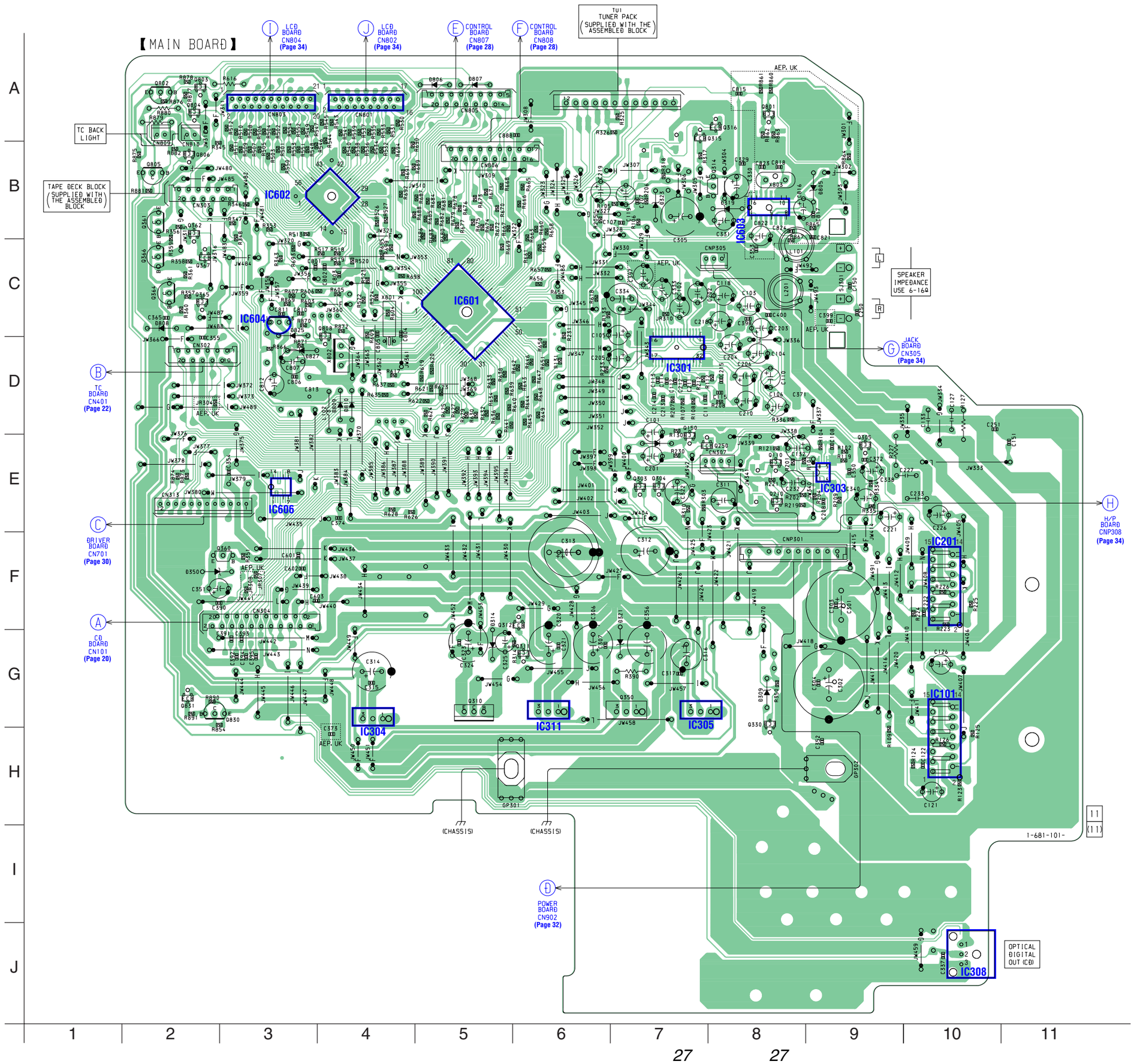
LOD-NEG
LOD-POS
TRAY-SNS1
TRAY-SNS2
TRAY-SNS3
OUT SW
IN SW
DISC-SNS

CD-ON
FM-ON
VOL-DATA
VOL-CLK
AU-MUTE
STBY ON
AU-MUTE

Bu+5.6V
CD+8V
P-GND
B-GND
STBY-ON

6-11. PRINTED WIRING BOARD MAIN SECTION

• See page 19 for Circuit Boards Location.



• **Semiconductor Location**

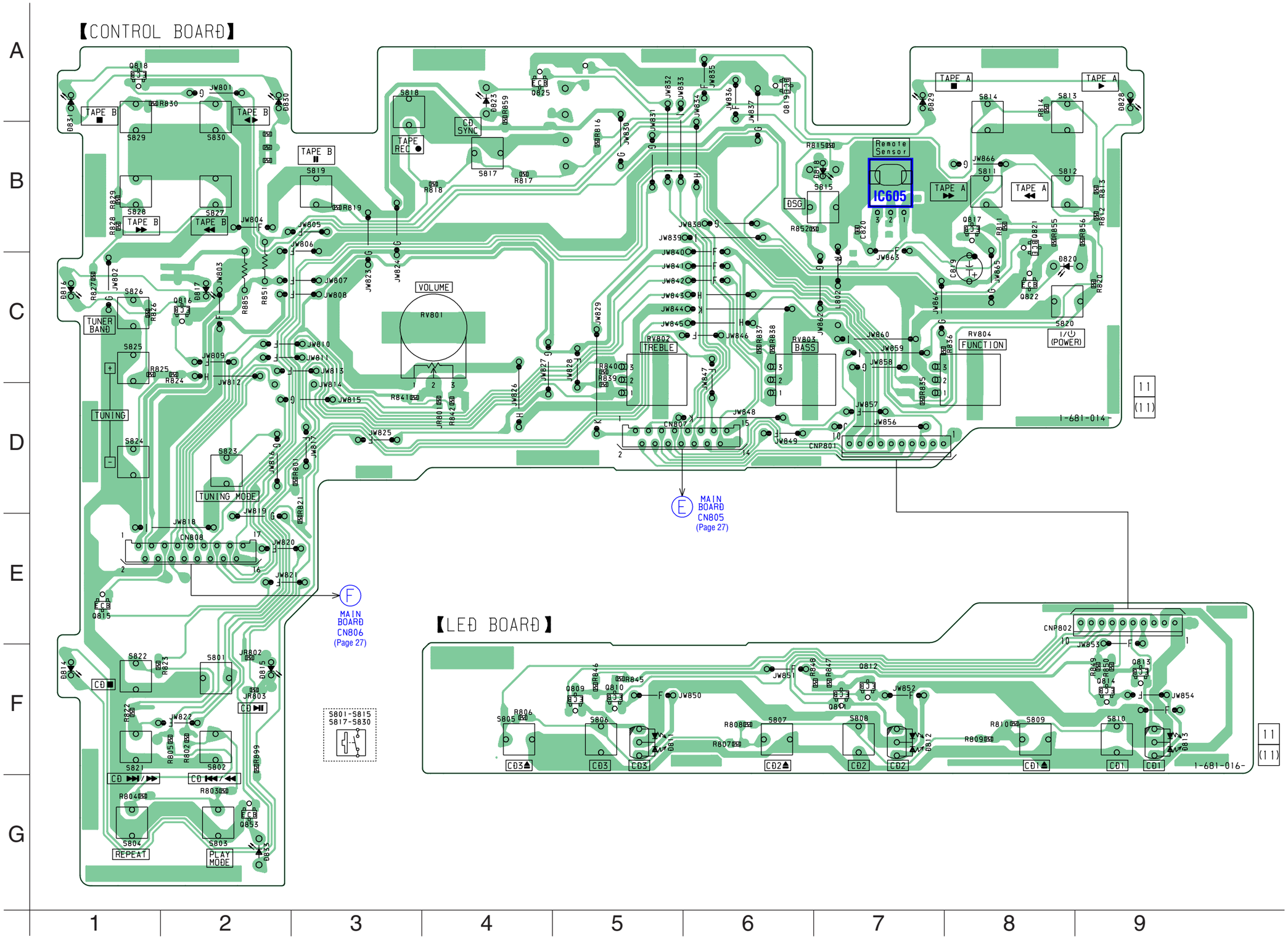
Ref. No.	Location
D309	G-8
D314	G-5
D319	B-8
D321	G-7
D323	B-7
D350	F-2
D805	B-9
D806	A-5
D807	A-5
D808	C-2
D809	D-4
D810	D-4
D825	C-3
D827	D-3
IC101	G-10
IC201	F-10
IC301	D-7
IC303	E-9
IC304	H-4
IC305	G-7
IC308	J-10
IC311	G-6
IC601	C-5
IC602	B-3
IC603	B-8
IC604	C-3
IC606	E-3
Q110	E-8
Q150	E-7
Q210	E-8
Q250	E-8
Q303	E-7
Q304	E-7
Q305	E-9
Q310	G-5
Q311	G-6
Q312	F-6
Q314	B-8
Q315	A-8
Q316	A-8
Q330	G-8
Q350	G-7
Q360	F-3
Q361	B-2
Q362	B-2
Q364	C-2
Q365	C-2
Q366	C-2
Q367	C-2
Q801	A-8
Q802	A-2
Q803	A-2
Q804	A-2
Q805	B-2
Q806	B-2
Q808	C-4
Q830	G-3
Q831	G-2

6-12. PRINTED WIRING BOARD CONTROL SECTION

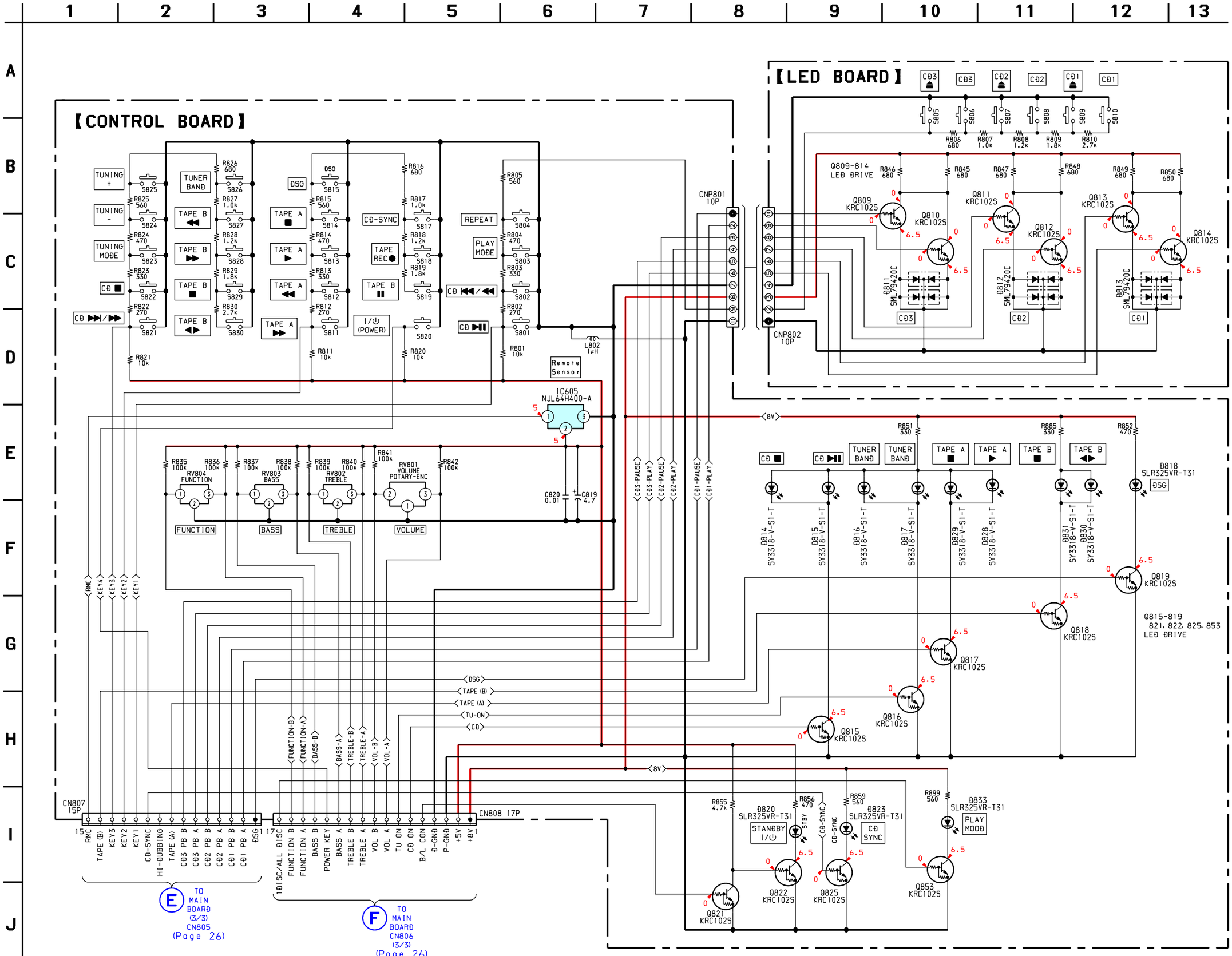
• See page 19 for Circuit Boards Location.

• **Semiconductor Location**

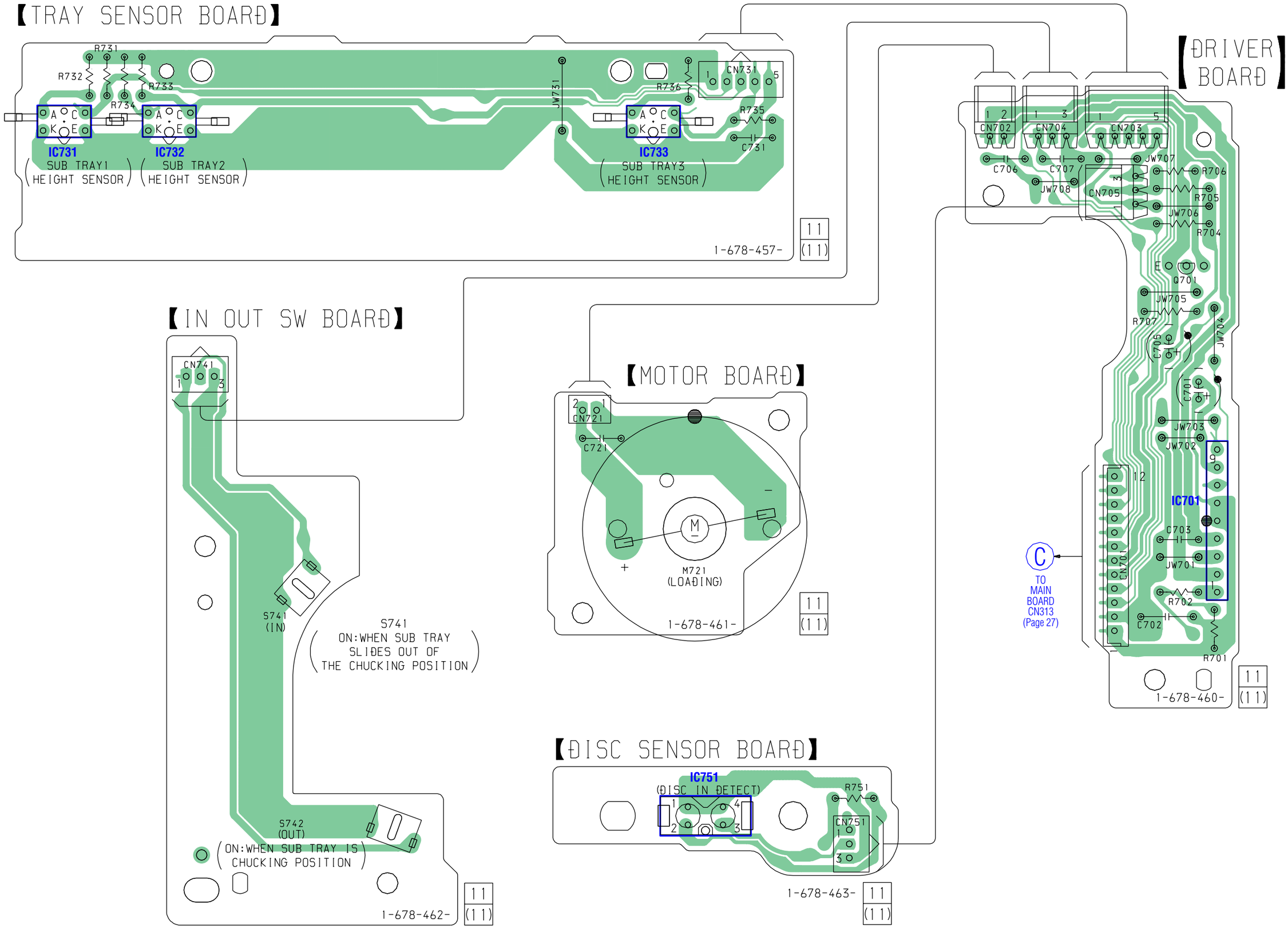
Ref. No.	Location
D811	F-5
D812	F-7
D813	F-9
D814	F-1
D815	F-2
D816	C-1
D817	C-2
D818	B-6
D820	C-8
D823	A-4
D828	A-9
D829	A-7
D830	A-2
D831	A-1
D833	G-2
IC605	B-7
Q809	F-5
Q810	F-5
Q811	F-7
Q812	F-7
Q813	F-9
Q814	F-9
Q815	E-1
Q816	C-2
Q817	B-8
Q818	A-1
Q819	A-6
Q821	B-8
Q822	C-8
Q825	A-4
Q853	G-2



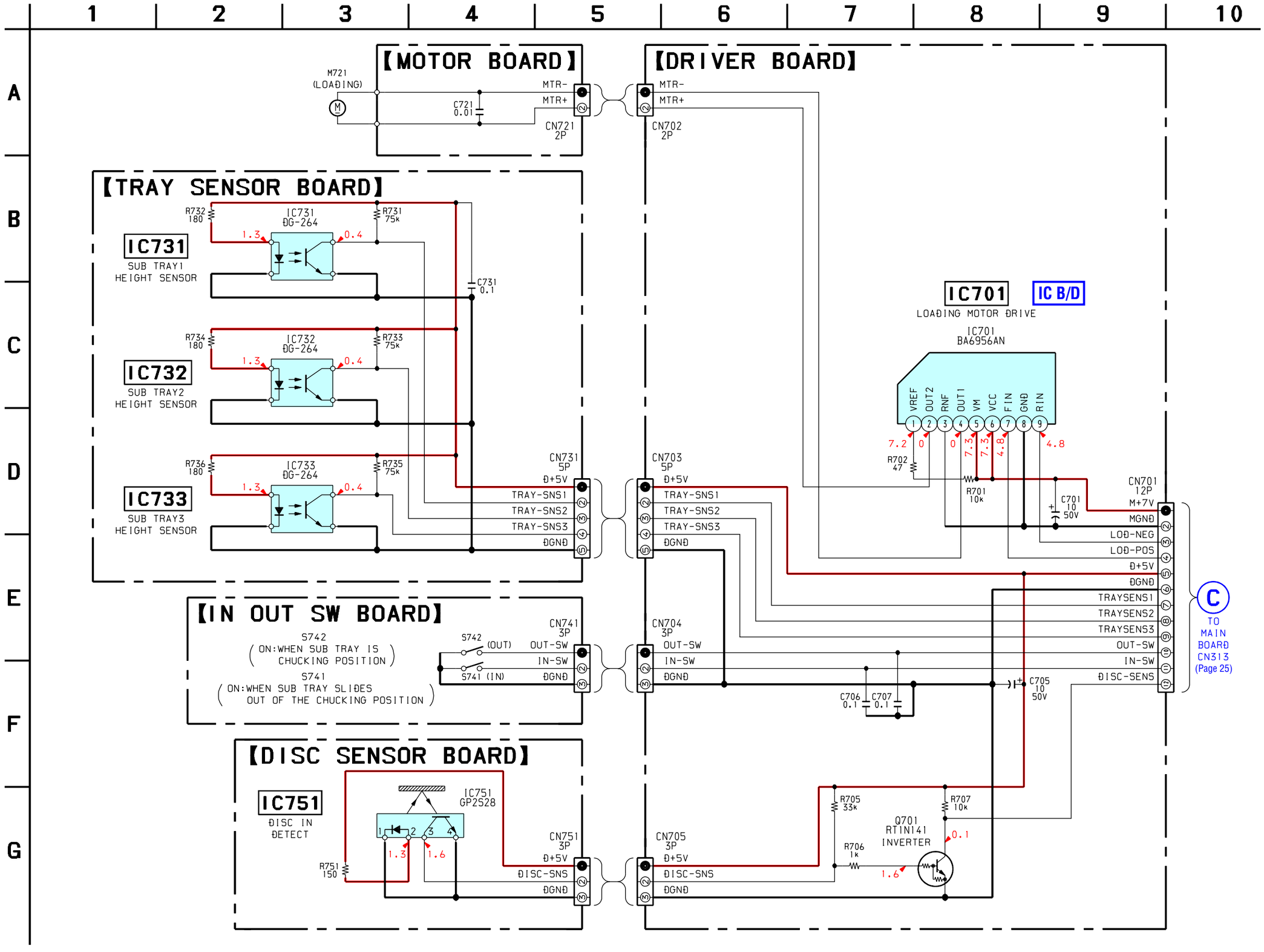
6-13. SCHEMATIC DIAGRAM CONTROL SECTION



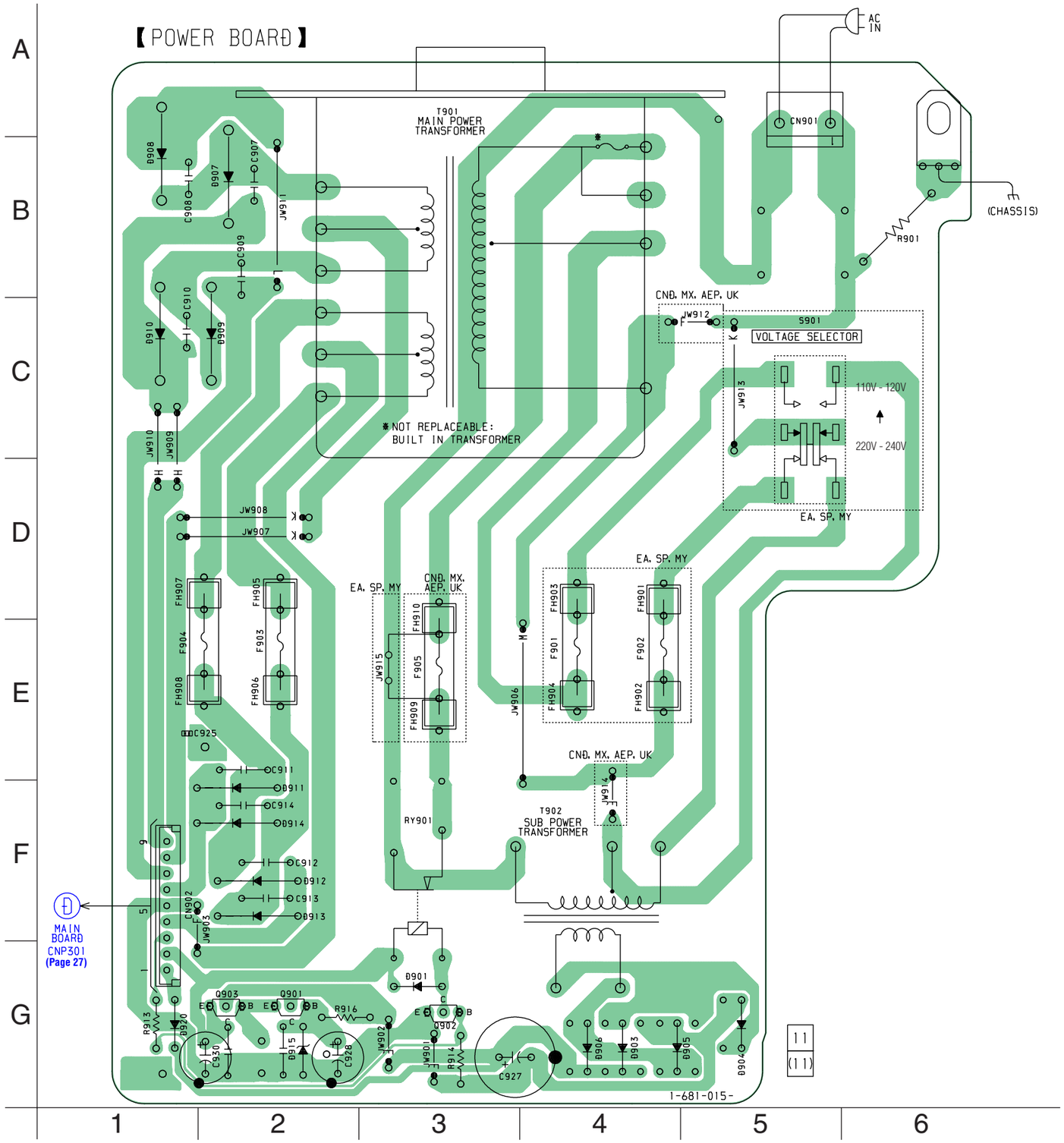
6-14. PRINTED WIRING BOARD DRIVER SECTION • See page 19 for Circuit Boards Location.



6-15. SCHEMATIC DIAGRAM DRIVER SECTION • See page 38 for IC Block Diagrams.



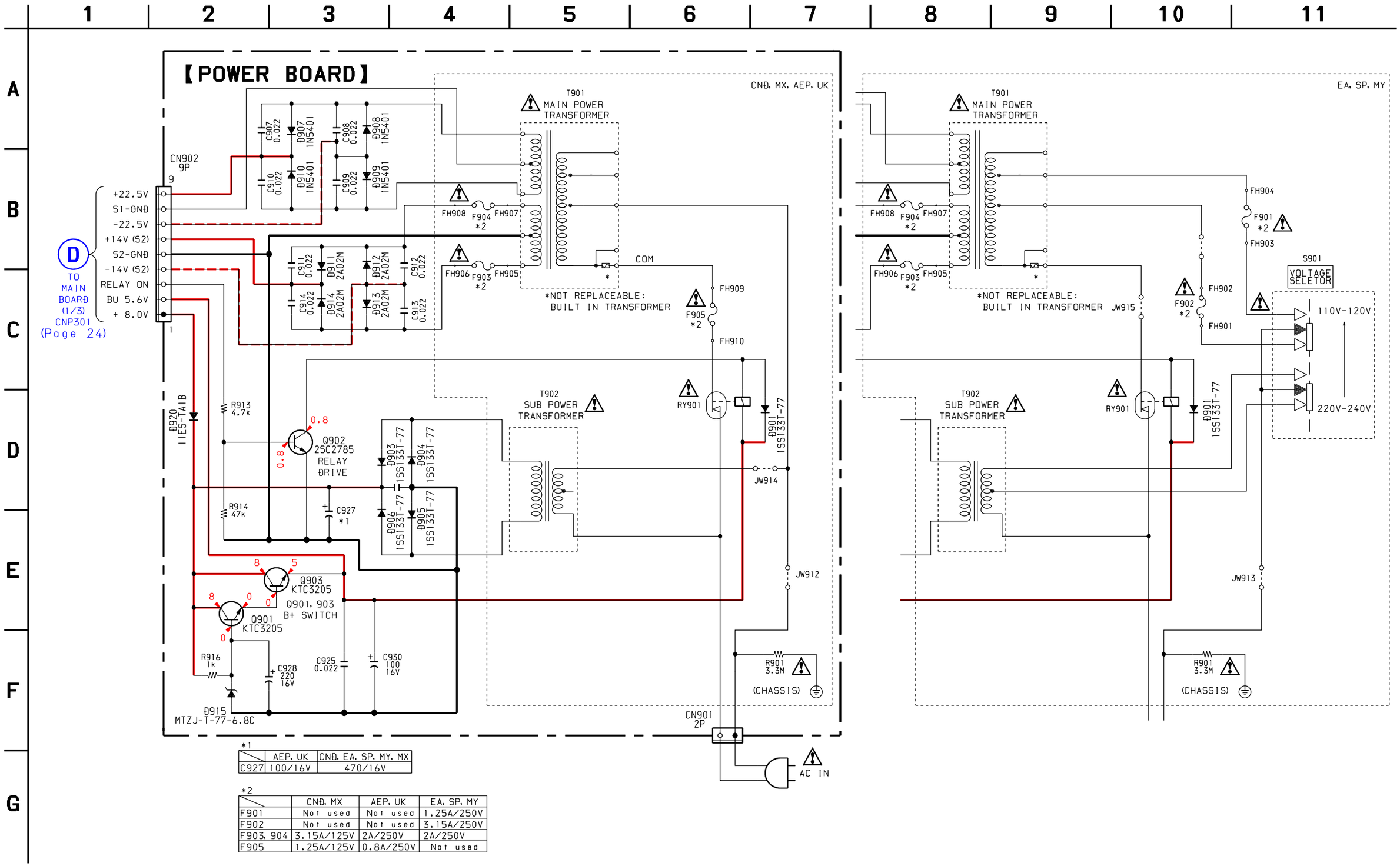
6-16. PRINTED WIRING BOARD POWER SECTION • See page 19 for Circuit Boards Location.



• **Semiconductor Location**

Ref. No.	Location
D901	G-3
D903	G-4
D904	G-5
D905	G-4
D906	G-4
D907	B-2
D908	B-1
D909	C-2
D910	C-1
D911	F-2
D912	F-2
D913	F-2
D914	F-2
D915	G-2
D920	G-1
Q901	G-2
Q902	G-3
Q903	G-2

6-17. SCHEMATIC DIAGRAM POWER SECTION



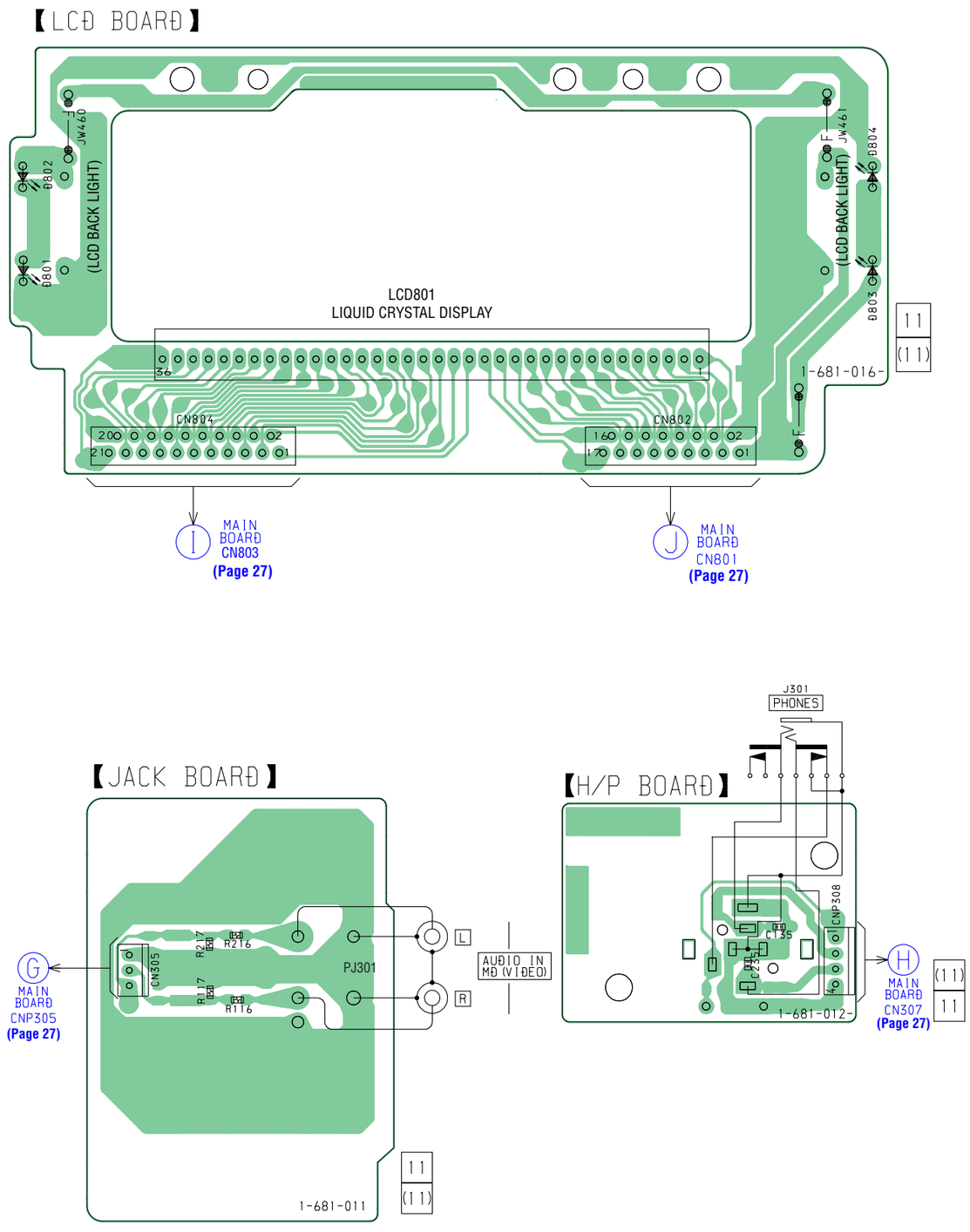
*1

	AEP, UK	CNΒ, EA, SP, MY, MX
C927	100/16V	470/16V

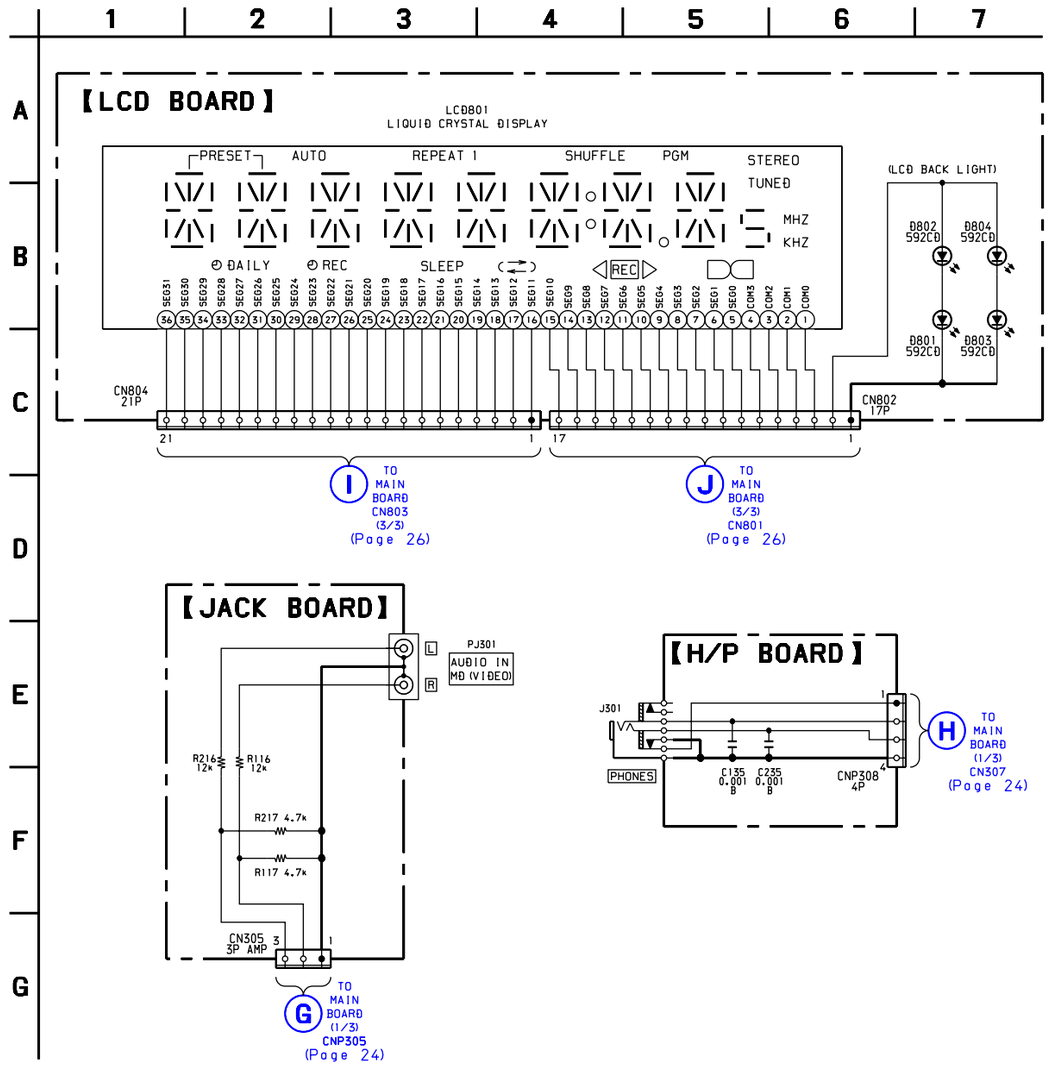
*2

	CNΒ, MX	AEP, UK	EA, SP, MY
F901	Not used	Not used	1.25A/250V
F902	Not used	Not used	3.15A/250V
F903, 904	3.15A/125V	2A/250V	2A/250V
F905	1.25A/125V	0.8A/250V	Not used

6-18. PRINTED WIRING BOARD LCD SECTION • See page 19 for Circuit Boards Location.



6-19. SCHEMATIC DIAGRAM LCD SECTION



6-20. IC PIN FUNCTION DESCRIPTION

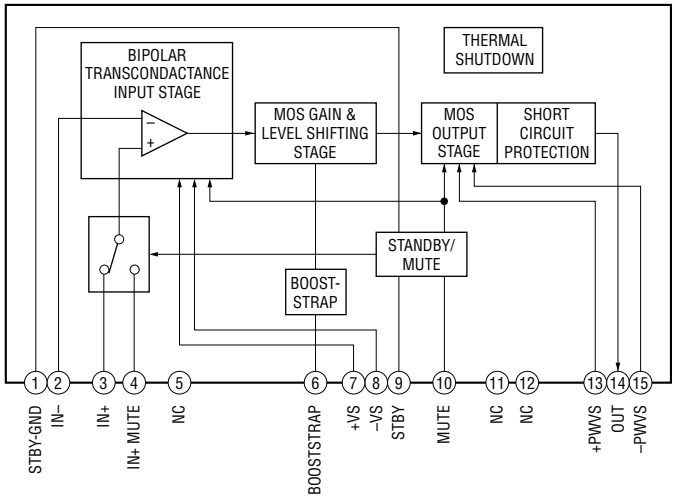
• IC601 (SYSTEM CONTROLLER) M30622MGA-A43FP

Pin No.	Pin Name	I/O	Description
1	C/D	O	LCD REQ Signal output.
2	C/S	O	LCD command select signal output.
3	AC CUT	I	AC CUT check signal. “L”:ON,”H”:OFF
4	REMOCON	I	Sircs remote control signal input.
5	SI (LCD)	I	LCD Serial interface signal input.
6	A-HALF	O	Tape A half signal output.
7	CLK (LCD)	O	LCD clock signal output.
8	BYTE	—	Ground terminal.
9	CNVSS	—	Ground terminal.
10	XCIN	I	Sub clock in.
11	XCOUT	O	Sub clock out.
12	RESET	O	System reset in signal output.
13	XOUT	O	Main system clock out.
14	VSS	—	Ground terminal.
15	XIN	I	System reset in signal input.
16	VCC	—	Power supply.
17	NC	—	Not used.
18	RDS CLK	I	RDS clock signal input.
19	SCOR	I	CD Q-data request signal input.
20	A-PLAY	I	Tapu A play signal input
21	B-PLAY	O	Tapu B play signal input
22	REC-PB	I	REC-PB/REC-MUTE signal input.
23	CAP +	O	CAP-MOTOR signal. “H”:REV,”L”:FED
24	PWM3	O	BU PWM3 signal outout.
25	A-TRG	O	Tape A trigger signal output.
26	PWM2	O	BU PWM2 signal outout.
27	B-TRG	O	Tape B trigger signal output.
28	PWM1	O	BU PWM1 signal output.
29	—	—	IIC SCL
30	—	—	IIC SDA
31	NC	—	Not used.
32	C-SQSO	I	CD SQ data inout.
33	C-SQCL	O	CD SQ clock output.
34	REC-MUTE/BAIS	O	REC MUTE/BAIS signal output, “H”:ON,”L”:OFF>
35	SENS	I	CD condition signal input.
36	PB A/B	O	Tape PB A/B select signal output.
37	LD ON	O	LD power “H”:ON,”L”:OFF>
38	CD ON	O	CD power “H”:ON,”L”:OFF.
39	CD CLK	O	CD clock signal output.
40	LINE MUTE	O	LINE muting ON/OFF signal output.
41	CD DATA	O	CD data signal output.
42	DISC-SNS	I	Detection input signal from DISC SENSOR BOARD.
43	IN SW	I	IN SW signal input.
44	OUT SW	I	OUT SW signal output.
45	TRAY-SENS3	I	CD table detect signal input.
46	TRAY-SENS2	I	CD table detect signal input.
47	TRAY-SENS1	I	CD table detect signal input.
48	LOD POS	O	Loading motor control signal output
49	LOD NEG	O	Loading motor control signal output
50	X-LATCH	O	CD LAT signal output.

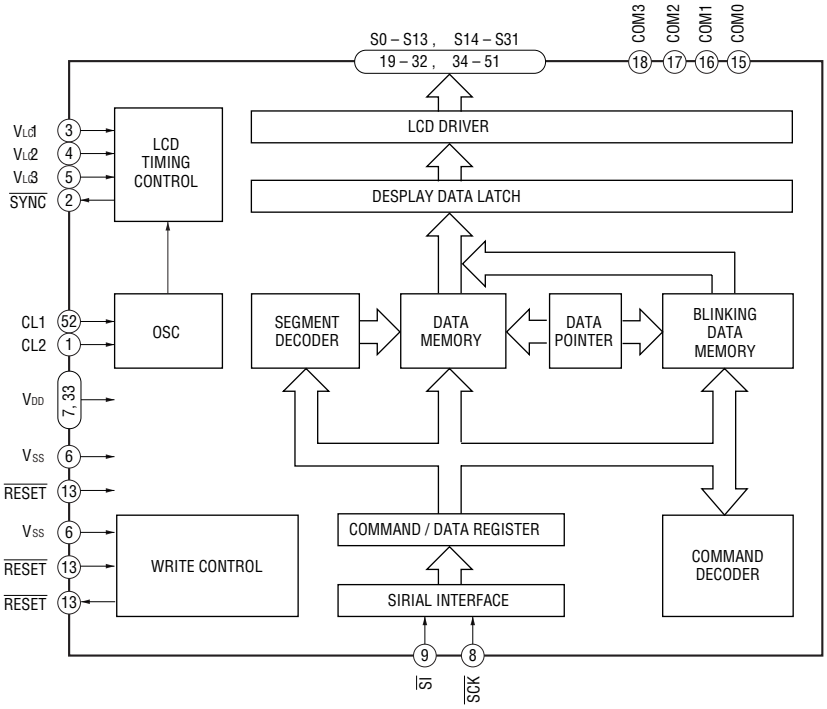
Pin No.	Pin Name	I/O	Description
51	X-RST	O	CD reset signal output.
52	AMP-MUTE	O	AMS signal output. “L”:IN,”H”:OUT.
53	B/L CON	O	Back light LED control signal output.
54	AU-MUTE	O	Audio mute signal output. “H”:IN,”L”:OUT.
55	STBY ON	O	Standby relay ON/OFF signal output.
56	VOL CLK	O	VOL CLK signal output.
57	VOL DATA	O	VOL DATA signal output.
58	RDS DATA	I	RDS data signal input.
59	FM ON	O	FM power “H”:ON,”L”:OFF.
60	TUNED	I	TUNED detact signal input. “L”:IN,”H”:OUT.
61	TU DO	I	Tuner data signal input.
62	VCC	—	Power supply.
63	TU CK	O	Tuner clock signal output.
64	VSS	—	Ground terminal.
65	TU D1	O	Tuner data signal output.
66	TU CE	O	Tuner detect signal output.
67	CD LED	O	CD LED control signal output.
68	TU ON	O	Tuner LED signal output.
69	VOL A	I	Volume signal inout from rotary encoder.
70	VOL B	I	Volume signal inout from rotary encoder.
71	TREBLE A	I	Treble signal inout from rotary encoder.
72	TREBLE B	I	Treble signal inout from rotary encoder.
73	BASS A	I	Bass ignal inout from rotary encoder.
74	POWER KEY	I	Power ON/OFF signal input.
75	BASS B	I	Bass ignal inout from rotary encoder.
76	FUNCTION A	I	Function signal inout from rotary encoder.
77	FUNCTION B	I	Function signal inout from rotary encoder.
78	1DISC/ALL DISC	O	DISC LED signal output.
79	DSG	O	DSG LED control signal output.
80	CD1 PB-A	O	CD1 play LED signal output
81	CD1 PB-B	O	CD1 disc LED signal putput.
82	CD2 PB-A	O	CD2 play LED signal output
83	CD2 PB-B	O	CD2 disc LED signal putput.
84	CD3 PB-A	O	CD3play LED signal output
85	CD3 PB-B	O	CD3 disc LED signal putput.
86	TAPE(A)	O	Tape A function LED signal output
87	REC MUTE	O	REC MUTE ON/OFF signal output.
88	CD-SYNC	O	CD SYNC LED signal output.
89	KEY1	I	Key input signal from function key.
90	KEY2	I	Key input signal from function key.
91	KEY3	I	Key input signal from function key.
92	TAPE(B)	O	Tape B function LED signal output
93	B-SHUT	I	B deck reel pulse signal input.
94	A-SHUT	I	A deck reel pulse signal input.
95	SIMUKE	I	Version select input.
96	AVSS	—	Ground terminal.
97	B-HALF	I	B deck half detect signal input.
98	VRFF	O	Analog reference voltage.
99	AVCC	—	Analog power supply.
100	LVD RST	O	LCD reset signal output.

6-21. IC BLOCK DIAGRAMS

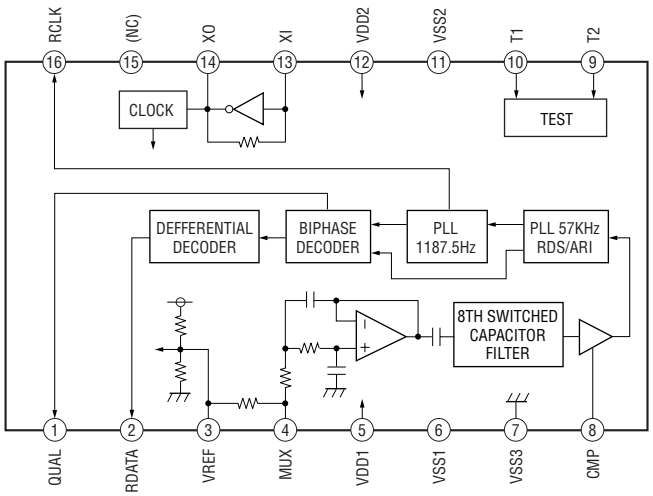
IC101, 201 TDA7296 (MAIN BOARD)



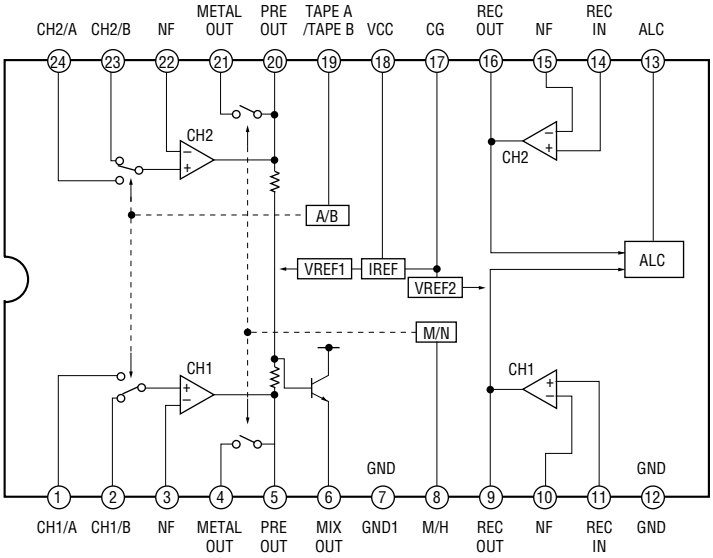
IC602 µPD7225G (MAIN BOARD)



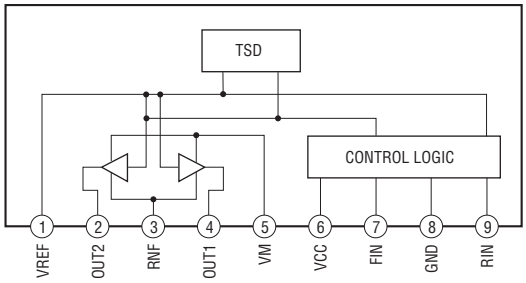
IC603 BU1924AF (MAIN BOARD)



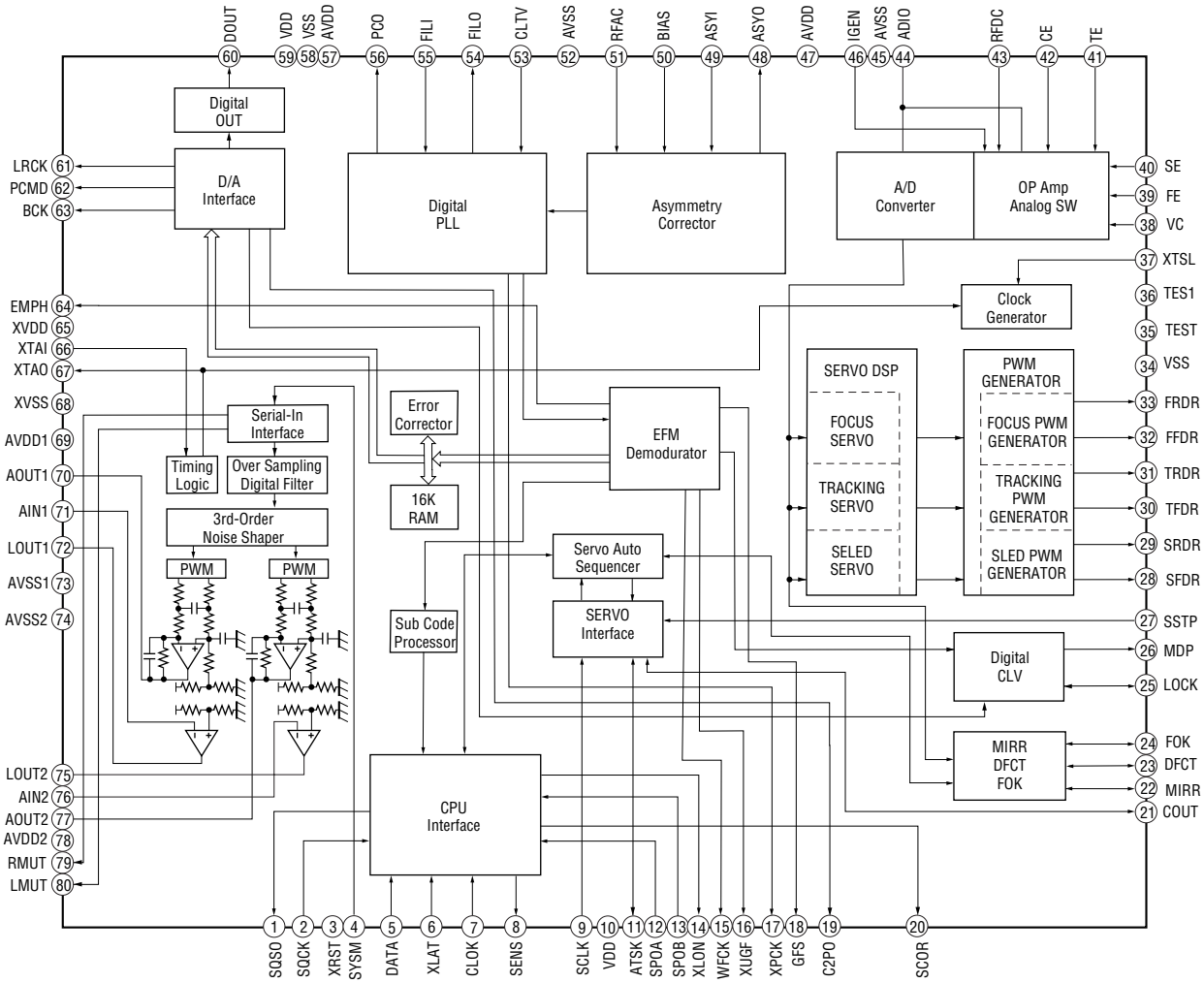
IC401 TA8189N (TC BOARD)



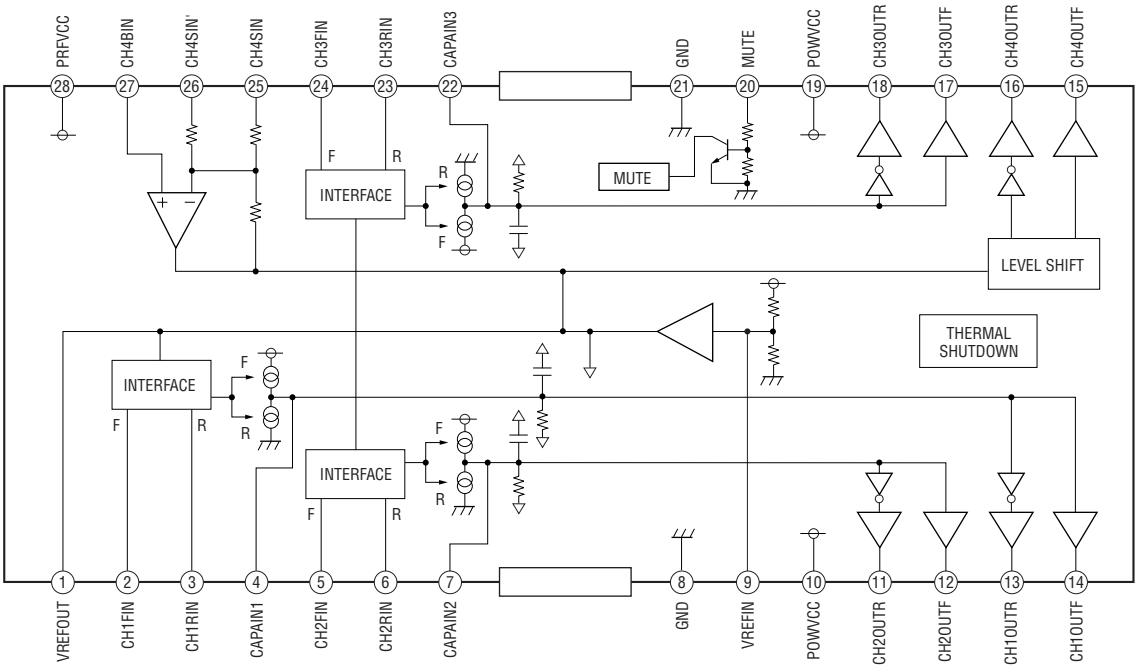
IC701 BA6956AN (DRIVER BOARD)



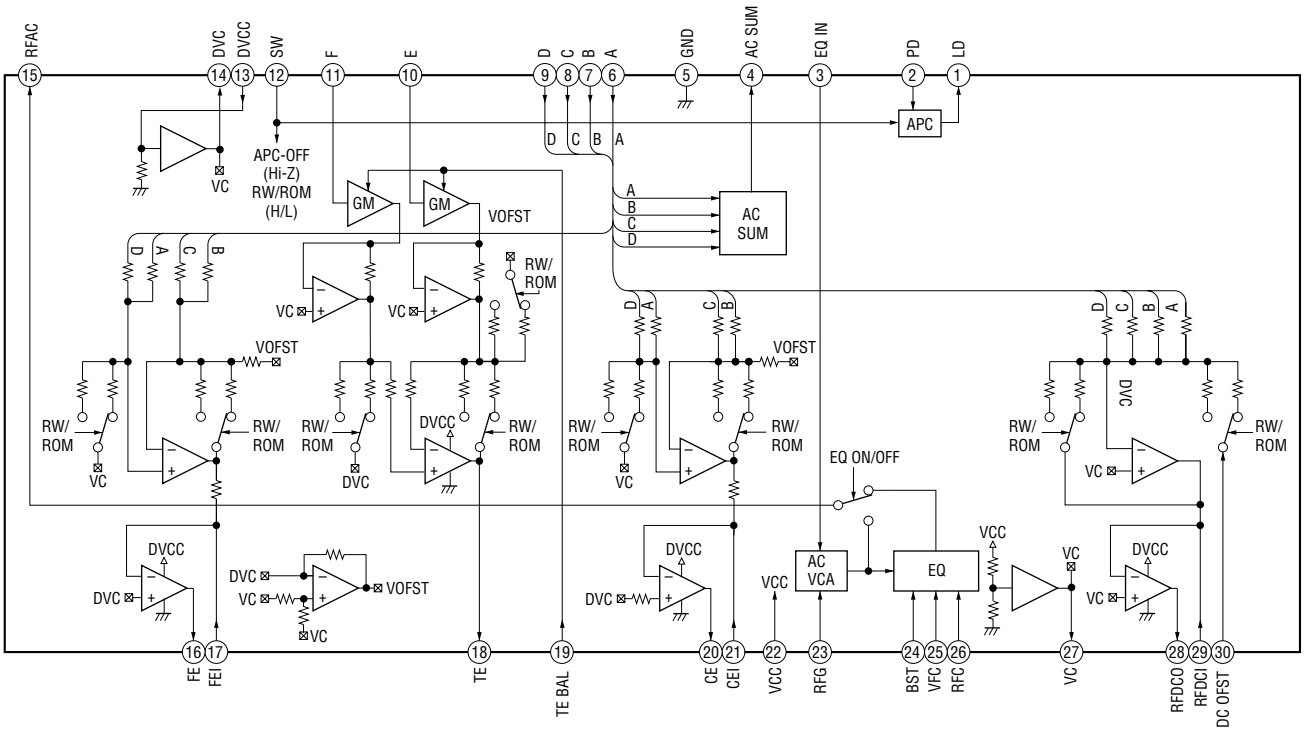
IC101 CXD3017Q (CD BOARD)



IC102 BA5974FP (CD BOARD)



IC103 CXA2581N (CD BOARD)



SECTION 7
EXPLODED VIEWS

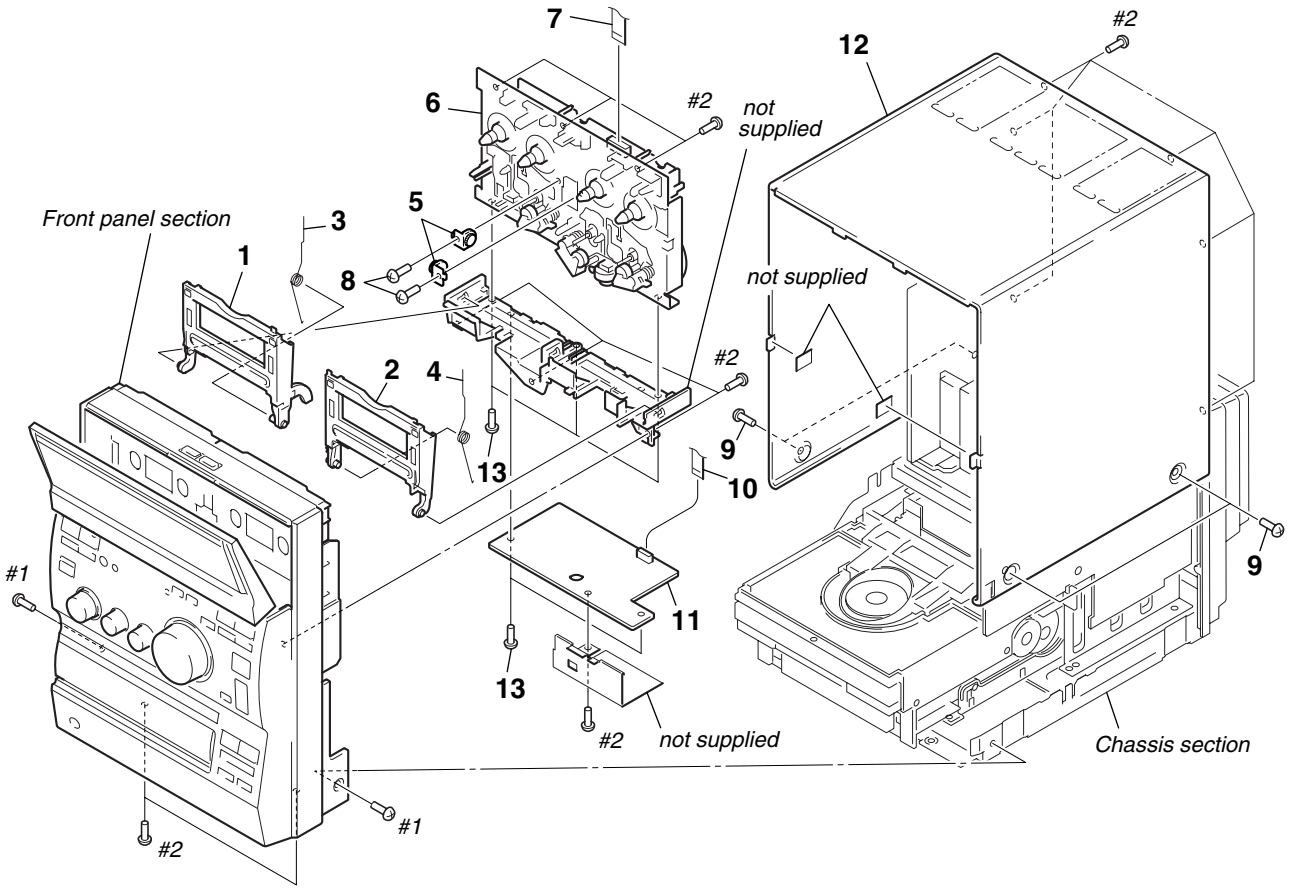
NOTE:

- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.
- Abbreviation
  CND: Canadian model
  EA : Saudi Arabia model
  MX : Mexican model
  SP : Singapore model
  MY : Malaysia model

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

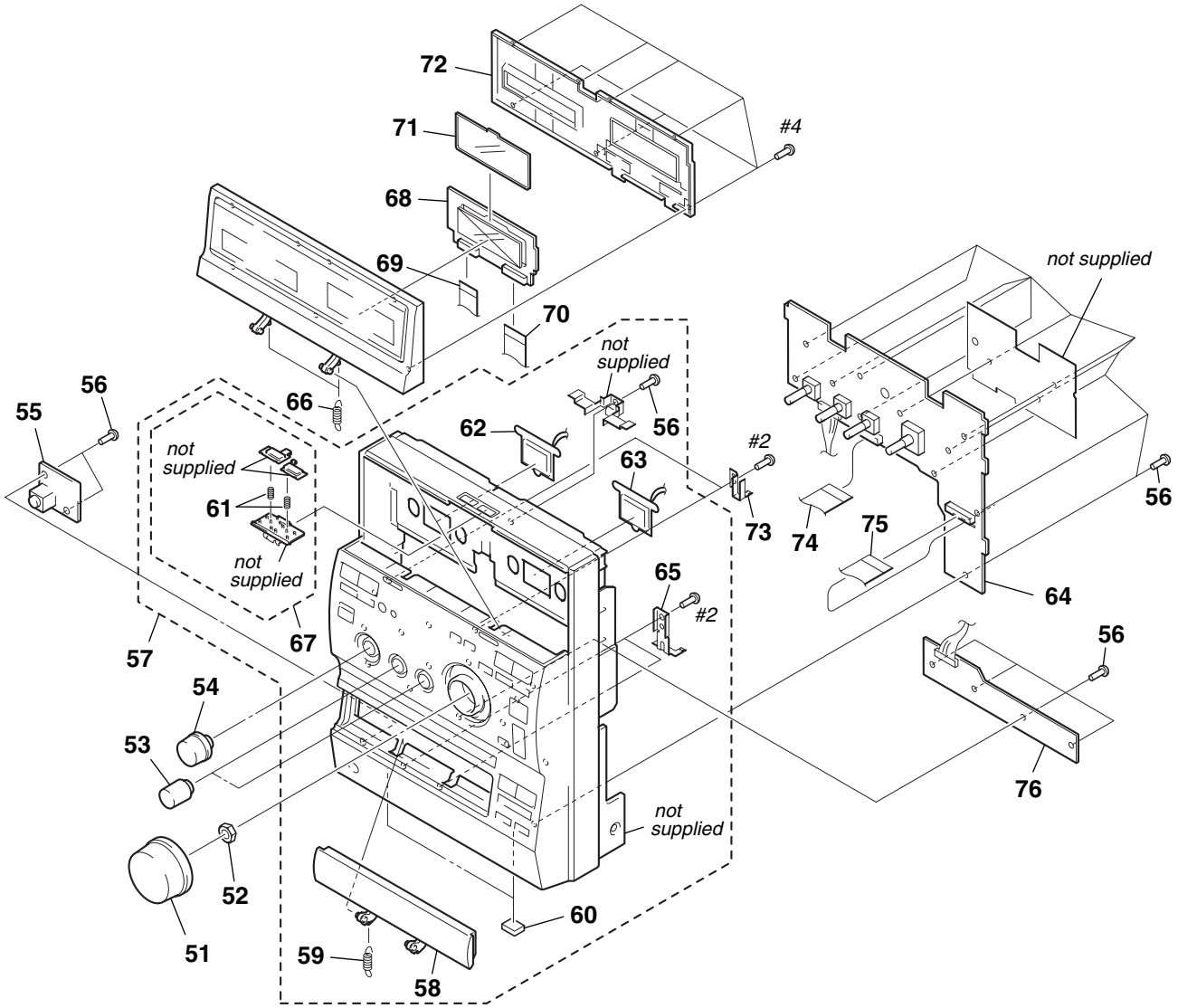
7-1. COVER SECTION



Ref. No.	Part No.	Description	Remarks
1	X-4952-972-1	HOLDER (A) SUB ASSY, CASSETTE	
2	X-4952-973-1	HOLDER (B) SUB ASSY, CASSETTE	
3	4-229-008-01	SPRING (CASSETTE A)	
4	4-229-009-01	SPRING (CASSETTE B)	
5	4-229-013-11	DAMPER	
6	1-796-078-11	DECK, MECH	
7	1-757-707-11	CABLE, FLEXIBLE FLAT (11 CORE)	

Ref. No.	Part No.	Description	Remarks
8	4-229-015-01	SCREW, +BVTTWH TAPPING	
9	4-221-580-01	SCREW, CASE	
10	1-757-705-11	CABLE, FLEXIBLE FLAT (11 CORE)	
11	A-2007-972-A	TC BOARD, COMPLETE	
12	4-222-370-11	COVER (UPPER)	
13	4-229-428-01	SCREW, +BVTP TAPPING	

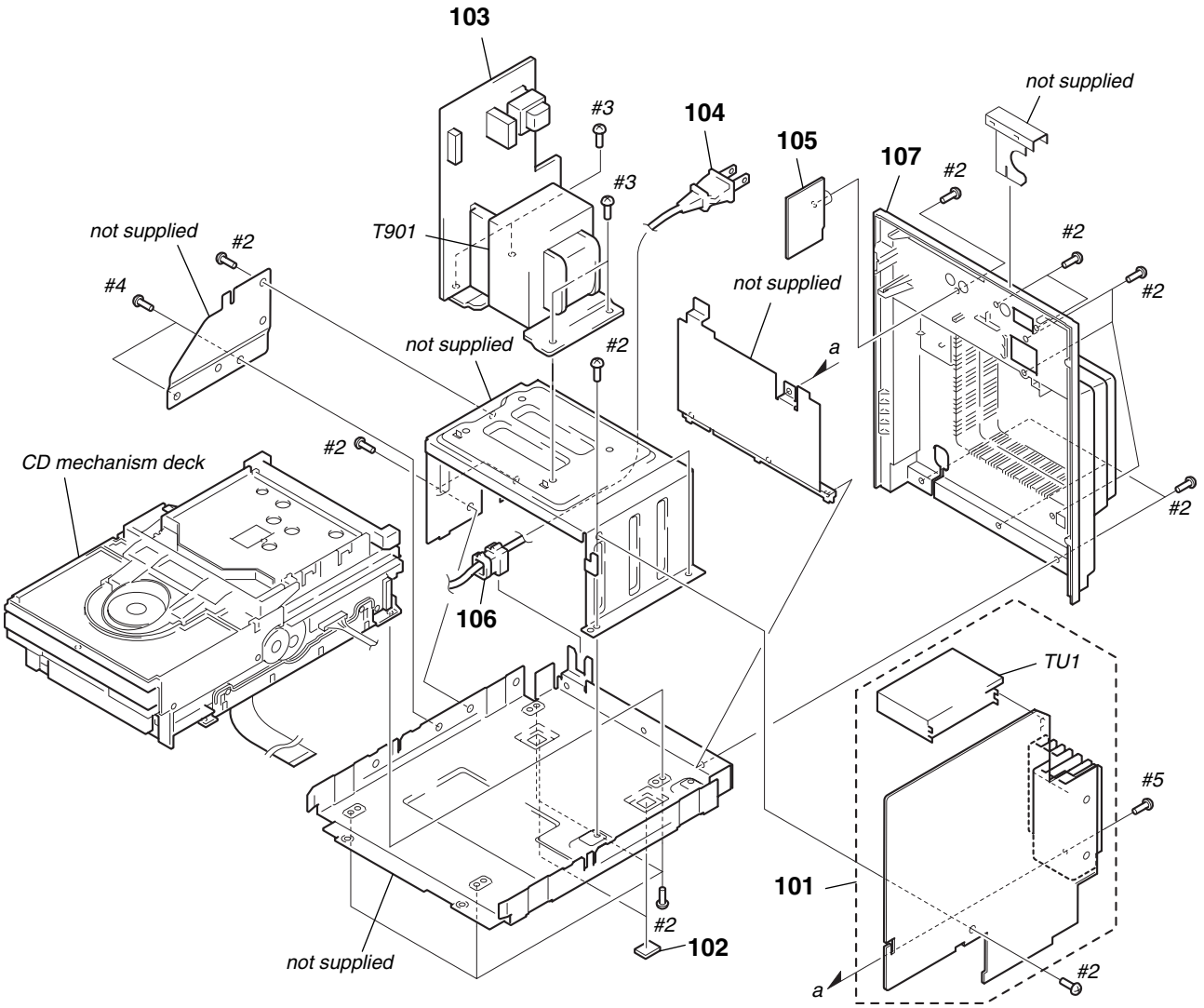
7-2. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remarks
51	4-232-441-01	KNOB (VOL)	
52	4-226-047-01	NUT, HEXAGON	
53	4-232-440-01	KNOB (BASS)	
54	4-232-439-01	KNOB (SELECT)	
55	1-681-012-11	H/P BOARD	
56	7-685-134-19	SCREW(DIA.2.6X8)(IT3B),TAPPING	
57	X-4953-646-1	PANEL SUB ASSY, FRONT (AEP,UK)	
57	X-4953-850-1	PANEL SUB ASSY, FRONT (CND,EA,MX,SP,MY)	
58	4-233-472-01	CD LID	
59	4-233-491-01	SPRING (CD LID)	
60	4-232-478-01	FOOT	
61	4-233-494-01	SPRING (EJECT)	
62	1-418-692-31	INDICATOR BLOCK, LED	
63	1-418-693-31	INDICATOR BLOCK, LED	

Ref. No.	Part No.	Description	Remarks
64	A-2007-973-A	CONTROL BOARD, COMPLETE	
65	4-233-478-01	BRACKET (CD LID)	
66	4-233-490-01	SPRING (LID)	
67	X-4953-649-1	BUTTON SUB ASSY, EJECT	
68	1-681-011-11	LCD BOARD	
69	1-757-702-11	CABLE, FLEXIBLE FLAT (17 CORE)	
70	1-757-703-11	CABLE, FLEXIBLE FLAT (21 CORE)	
71	4-217-319-11	PLATE, LCD LIGHT	
72	4-233-475-01	BRACKET (LCD)	
73	4-222-394-01	BRACKET (CASSETTE LID A)	
74	1-757-704-11	CABLE, FLEXIBLE FLAT(15 CORE)	
75	1-757-706-11	CABLE, FLEXIBLE FLAT(17 CORE)	
76	1-681-016-11	LED BOARD	

7-3. CHASSIS SECTION

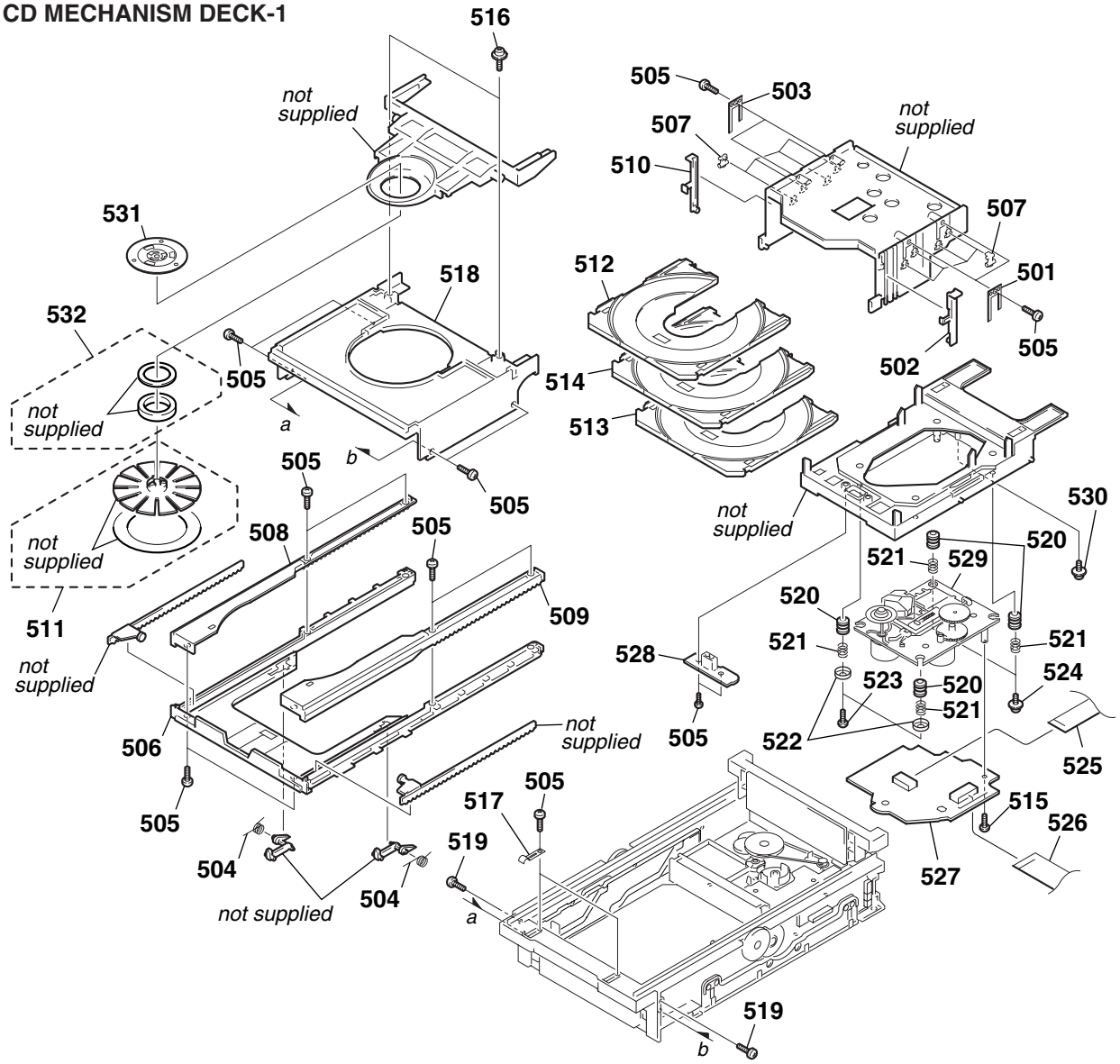


Ref. No.	Part No.	Description	Remarks
101	A-4726-203-A	MAIN BOARD, COMPLETE (CND,MX)	
101	A-4726-205-A	MAIN BOARD, COMPLETE (EA,SP,MY)	
101	A-2007-970-A	MAIN BOARD, COMPLETE (AEP,UK)	
102	4-232-478-01	FOOT	
103	A-4726-206-A	POWER BOARD, COMPLETE (EA,SP,MY)	
103	A-4726-204-A	POWER BOARD, COMPLETE (CND,MX)	
⚠104	1-783-531-71	CORD, POWER (CND,EA,MX)	
⚠104	1-696-169-11	CORD, POWER (AEP,SP,MY)	
⚠104	1-696-169-21	CORD, POWER (UK)	
105	1-681-013-11	JACK BOARD	

Ref. No.	Part No.	Description	Remarks
106	4-217-350-11	STOPPER, CORD	
107	4-233-470-01	PANEL, BACK (AEP,UK)	
107	4-233-470-11	PANEL, BACK (CND,EA,MX)	
107	4-233-470-21	PANEL, BACK (SP,MY)	
⚠T901	1-437-248-21	TRANSFORMER, POWER (AEP,UK)	
⚠T901	1-437-249-11	TRANSFORMER, POWER (CND,EA,MX)	
TU1	A-4303-625-A	TUNER UNIT (CND,EA,MX,SP,MY)	
TU1	A-4303-624-A	TUNER UNIT (AEP,UK)	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

7-4. CD MECHANISM DECK-1

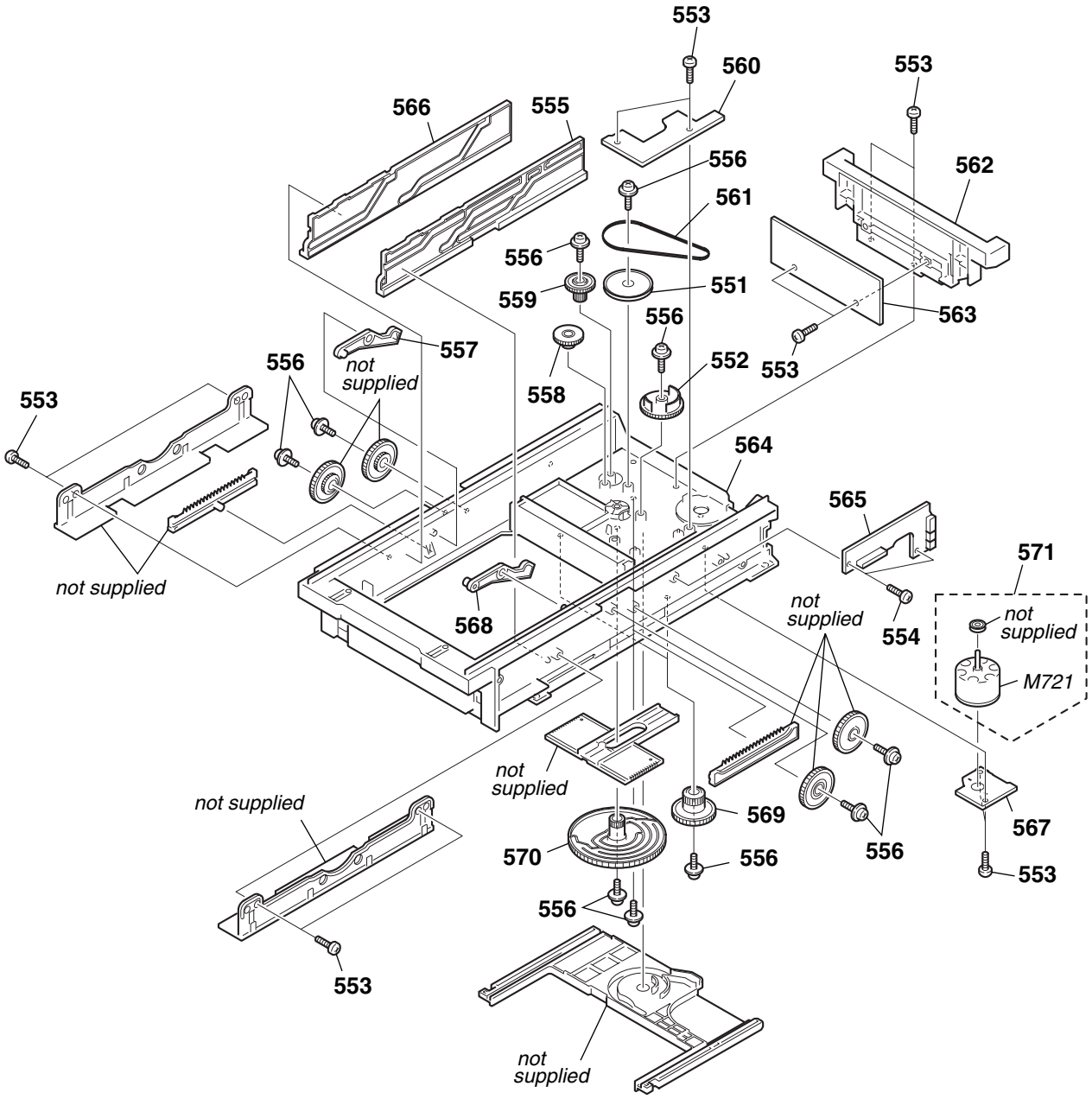


Ref. No.	Part No.	Description	Remarks
501	4-228-980-01	SPRING (STOCKER), LEAF	
502	4-228-964-01	SLIDER (STOCKER.R)	
503	4-234-423-01	SPRING (STOCKER L), LEAF	
504	4-228-995-01	SPRING (L), TORSION	
505	4-218-253-01	SCREW (M2.6), +BTTP	
506	4-228-972-01	TRAY(MAIN)	
507	4-228-981-01	STOPPER (TRAY)	
508	4-228-975-01	COVER (TRAY.L)	
509	4-228-978-01	COVER (TRAY.R)	
510	4-228-963-01	SLIDER (STOCKER.L)	
511	X-4953-282-1	PULLEY (A) ASSY, CHUCKING	
512	4-228-970-21	TRAY (SUB)	
513	4-228-970-11	TRAY (SUB)	
514	4-228-970-01	TRAY (SUB)	
515	7-685-533-19	SCREW +BTP 2.6X6 TYPE2 N-S	
516	4-218-254-21	SCREW(M2.6), +PTPWH	

Ref. No.	Part No.	Description	Remarks
517	4-228-969-01	SPRING (TABLE), LEAF	
518	4-228-974-01	RACK (CENTER)	
519	4-218-253-71	SCREW (M2.6), +BTTP	
520	4-227-549-11	INSULATOR	
521	4-227-045-11	SPRING (INSULATOR), COIL	
522	4-231-151-01	STOPPER(BU)	
523	4-931-757-31	SCREW(DIA.2.6X8)(IT3B),TAPPING	
524	4-985-672-01	SCREW (+PTPWH M2.6), FLOATING	
525	1-757-055-11	WIRE, PARALLEL (FFC) (16 CORE)	
526	1-757-708-11	CABLE, FLEXIBLE FLAT (21 CORE)	
527	A-4725-595-A	CD BOARD, COMPLETE	
528	1-678-463-11	DISK SENSOR BOARD	
⚠529	8-820-116-01	DEVICE,OPTICAL KSM-213DCP/Z-NP	
530	4-227-899-01	SCREW (DIA. 12), FROATING	
531	4-231-102-01	PULLEY (213B), CHUCKING	
532	1-471-035-11	MAGNET ASSY	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

7-5. CD MECHANISM DECK-2



Ref. No.	Part No.	Description	Remarks
551	4-229-003-01	PULLEY	
552	4-228-998-01	GEAR (DETECTION)	
553	4-218-253-01	SCREW (M2.6), +BTTP	
554	4-218-253-61	SCREW (M2.6), +BTTP	
555	4-228-977-01	SLIDER (BU.L)	
556	4-218-254-21	SCREW (M2.6), +PTPWH	
557	4-228-999-01	LEVER (MAIN.L)	
558	4-228-985-01	GEAR (PULLEY)	
559	4-228-997-02	GEAR (CAM)	
560	1-678-462-11	IN OUT SW BOARD	
561	4-228-968-01	BELT	
562	4-229-001-01	HOLDER (SENSOR)	

Ref. No.	Part No.	Description	Remarks
563	1-678-457-11	TRAY SENSOR BOARD	
564	4-228-988-01	CHASSIS	
565	1-678-460-11	DRIVER BOARD	
566	4-228-976-01	SLIDER (BU.R)	
567	1-678-461-11	MOTOR BOARD	
568	4-229-000-01	LEVER (MAIN.R)	
569	4-229-002-01	GEAR (SLIDER)	
570	4-228-971-01	CAM	
571	X-4952-971-1	MOTOR ASSY	
M721	1-541-632-11	MOTOR, DC	

SECTION 8
ELECTRICAL PARTS LIST

NOTE:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- CAPACITORS:
  uF: µF
- RESISTORS
  All resistors are in ohms.
  METAL: metal-film resistor
  METAL OXIDE: Metal Oxide-film resistor
  F: nonflammable
- COILS
  uH: µH
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA...: µA... , uPA... , µPA... ,
  uPB... , µPB... , uPC... , µPC... ,
  uPD..., µPD...
- Abbreviation
  CND : Canadian model
  EA : Saudi Arabia model
  MX : Mexican model
  SP : Singapore model
  MY : Malaysia model

When indicating parts by reference number, please include the board name.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description			Remarks
	A-4725-595-A	CD BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C101	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C102	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C103	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C104	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C108	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C109	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C110	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C111	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C112	1-115-156-11	CERAMIC CHIP	1uF		10V
C114	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C116	1-126-382-11	ELECT	100uF	20.00%	16V
C117	1-126-382-11	ELECT	100uF	20.00%	16V
C118	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C121	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C122	1-104-665-11	ELECT	100uF	20.00%	16V
C123	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C124	1-125-891-11	CERAMIC CHIP	0.47uF	10.00%	10V
C125	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C126	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C127	1-126-382-11	ELECT	100uF	20.00%	16V
C130	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C131	1-104-665-11	ELECT	100uF	20.00%	16V
C133	1-162-921-11	CERAMIC CHIP	33PF	5%	50V
C140	1-115-156-11	CERAMIC CHIP	1uF		10V
C143	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C145	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C146	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C150	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C153	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C159	1-162-969-11	CERAMIC CHIP	0.0068uF	10%	25V
C162	1-126-382-11	ELECT	100uF	20.00%	16V
C163	1-104-665-11	ELECT	100uF	20.00%	16V
C165	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C167	1-162-920-11	CERAMIC CHIP	27PF	5%	50V
C168	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C171	1-115-412-11	CERAMIC CHIP	680PF	5.00%	25V
C172	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C181	1-115-412-11	CERAMIC CHIP	680PF	5.00%	25V
C182	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C183	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C184	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V

Ref. No.	Part No.	Description			Remarks
C185	1-125-891-11	CERAMIC CHIP	0.47uF	10.00%	10V
C190	1-115-156-11	CERAMIC CHIP	1uF		10V
C191	1-104-665-11	ELECT	100uF	20.00%	16V
C192	1-126-382-11	ELECT	100uF	20.00%	16V
C193	1-126-382-11	ELECT	100uF	20.00%	16V
C194	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C196	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C197	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C198	1-104-665-11	ELECT	100uF	20.00%	16V
		< CONNECTOR >			
CN101	1-569-914-11	SOCKET, CONNECTOR 21P			
CN102	1-785-953-11	CONNECTOR, FFC/FPC			
		< DIODE >			
D101	8-719-056-77	DIODE UDZ-TE-17-3.9B			
		< FERRITE BEAD >			
FB101	1-469-144-21	FERRITE	0UH		
FB103	1-469-144-21	FERRITE	0UH		
		< IC >			
IC101	8-752-402-31	IC CXD3017Q			
IC102	8-759-549-28	IC BA5974FP-E2			
IC103	8-752-089-74	IC CXA2581N-T4			
		< JUMPER RESISTOR >			
JR101	1-216-864-11	METAL CHIP	0	5%	1/16W
		< TRANSISTOR >			
Q101	8-729-049-31	TRANSISTOR	2SB710A-RTX		
Q101	8-729-049-31	TRANSISTOR	2SB710A-RTX		
Q102	8-729-920-85	TRANSISTOR	2SD1664-T100-QR		
		< RESISTOR >			
R101	1-216-821-11	METAL CHIP	1K	5%	1/16W
R102	1-216-845-11	METAL CHIP	100K	5%	1/16W
R103	1-216-835-11	METAL CHIP	15K	5%	1/16W
R104	1-216-839-11	METAL CHIP	33K	5%	1/16W
R106	1-216-821-11	METAL CHIP	1K	5%	1/16W
R107	1-216-833-11	METAL CHIP	10K	5%	1/16W
R108	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R109	1-216-857-11	METAL CHIP	1M	5%	1/16W
R111	1-216-846-11	METAL CHIP	120K	5%	1/16W
R114	1-218-745-11	RES-CHIP	160K	5%	1/16W

CD CONTROL

Ref. No.	Part No.	Description			Remarks
R116	1-216-797-11	METAL CHIP	10	5%	1/16W
R117	1-216-821-11	METAL CHIP	1K	5%	1/16W
R118	1-216-809-11	METAL CHIP	100	5%	1/16W
R119	1-216-826-11	METAL CHIP	2.7K	5%	1/16W
R120	1-216-835-11	METAL CHIP	15K	5%	1/16W
R122	1-216-845-11	METAL CHIP	100K	5%	1/16W
R123	1-216-833-11	METAL CHIP	10K	5%	1/16W
R124	1-216-845-11	METAL CHIP	100K	5%	1/16W
R131	1-216-813-11	METAL CHIP	220	5%	1/16W
R143	1-216-836-11	METAL CHIP	18K	5%	1/16W
R144	1-216-836-11	METAL CHIP	18K	5%	1/16W
R147	1-216-828-11	METAL CHIP	3.9K	5%	1/16W
R148	1-216-797-11	METAL CHIP	10	5%	1/16W
R149	1-216-797-11	METAL CHIP	10	5%	1/16W
R150	1-216-833-11	METAL CHIP	10K	5%	1/16W
R151	1-216-845-11	METAL CHIP	100K	5%	1/16W
R158	1-216-837-11	METAL CHIP	22K	5%	1/16W
R159	1-216-837-11	METAL CHIP	22K	5%	1/16W
R162	1-216-847-11	METAL CHIP	150K	5%	1/16W
R171	1-216-837-11	METAL CHIP	22K	5%	1/16W
R172	1-216-837-11	METAL CHIP	22K	5%	1/16W
R173	1-216-837-11	METAL CHIP	22K	5%	1/16W
R181	1-216-837-11	METAL CHIP	22K	5%	1/16W
R182	1-216-837-11	METAL CHIP	22K	5%	1/16W
R183	1-216-837-11	METAL CHIP	22K	5%	1/16W
R190	1-216-813-11	METAL CHIP	220	5%	1/16W
R191	1-216-839-11	METAL CHIP	33K	5%	1/16W
R192	1-216-839-11	METAL CHIP	33K	5%	1/16W
R193	1-216-846-11	METAL CHIP	120K	5%	1/16W
R194	1-216-845-11	METAL CHIP	100K	5%	1/16W
R195	1-216-853-11	METAL CHIP	470K	5%	1/16W
R196	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R197	1-216-821-11	METAL CHIP	1K	5%	1/16W
		<NETWORK RESISTOR>			
RN101	1-233-576-11	RES, CHIP NETWORK 100			
		< SWITCH >			
S101	1-771-853-11	SWITCH, DETECTION(LIMIT IN SW)			
		< VIBRATOR >			
X101	1-781-947-11	VIBRATOR, CRYSTAL(16.9344MHz)			
**********					
	A-2007-973-A	CONTROL BOARD, COMPLETE			
		**********			
	1-757-704-11	CABLE, FLEXIBLE FLAT (15 CORE)			
	1-757-706-11	CABLE, FLEXIBLE FLAT (17 CORE)			
		< CAPACITOR >			
C819	1-124-259-11	ELECT	4.7uF	20.00%	16V
C820	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
		< CONNECTOR >			
CN807	1-568-834-11	SOCKET, CONNECTOR 15P			
* CN808	1-569-934-11	SOCKET, CONNECTOR 17P			

Ref. No.	Part No.	Description			Remarks
		< DIODE >			
D814	8-719-084-70	DIODE SY3318-V-S1-T(CD■)			
D815	8-719-084-70	DIODE SY3318-V-S1-T(CD▶II)			
D816	8-719-084-70	DIODE SY3318-V-S1-T(TUNER BAND)			
D817	8-719-084-70	DIODE SY3318-V-S1-T(TUNER BAND)			
D818	8-719-084-70	DIODE SY3318-V-S1-T(DSG)			
D820	8-719-074-42	DIODE SLR325VR-T31(STANDBY I/⏻)			
D823	8-719-074-42	DIODE SLR325VR-T31(CD SYNC)			
D828	8-719-084-70	DIODE SY3318-V-S1-T(TAPE A ▶)			
D829	8-719-084-70	DIODE SY3318-V-S1-T(TAPE A ■)			
D830	8-719-084-70	DIODE SY3318-V-S1-T(TAPE B ◀▶)			
D831	8-719-084-70	DIODE SY3318-V-S1-T(TAPE B ■)			
D833	8-719-074-42	DIODE SLR325VR-T31(PLAY MODE)			
		< IC >			
IC605	8-759-827-70	IC NJL64H400A-1			
		< JUMPER RESISTOR >			
JR801	1-216-295-00	SHORT	0		
JR802	1-216-295-00	SHORT	0		
		< COIL >			
L802	1-414-142-11	MICRO INDUCTOR	1uH		
		< TRANSISTOR >			
Q815	8-729-900-53	TRANSISTOR	DTC114EKA-T146		
Q816	8-729-900-53	TRANSISTOR	DTC114EKA-T146		
Q817	8-729-900-53	TRANSISTOR	DTC114EKA-T146		
Q818	8-729-900-53	TRANSISTOR	DTC114EKA-T146		
Q819	8-729-900-53	TRANSISTOR	DTC114EKA-T146		
Q821	8-729-900-53	TRANSISTOR	DTC114EKA-T146		
Q822	8-729-900-53	TRANSISTOR	DTC114EKA-T146		
Q825	8-729-900-53	TRANSISTOR	DTC114EKA-T146		
Q853	8-729-900-53	TRANSISTOR	DTC114EKA-T146		
		< RESISTOR >			
R801	1-216-833-11	METAL CHIP	10K	5%	1/16W
R802	1-216-814-11	METAL CHIP	270	5%	1/16W
R803	1-216-815-11	METAL CHIP	330	5%	1/16W
R804	1-216-817-11	METAL CHIP	470	5%	1/16W
R805	1-216-818-11	METAL CHIP	560	5%	1/16W
R811	1-216-833-11	METAL CHIP	10K	5%	1/16W
R812	1-216-814-11	METAL CHIP	270	5%	1/16W
R813	1-216-815-11	METAL CHIP	330	5%	1/16W
R814	1-216-817-11	METAL CHIP	470	5%	1/16W
R815	1-216-818-11	METAL CHIP	560	5%	1/16W
R816	1-216-819-11	METAL CHIP	680	5%	1/16W
R817	1-216-821-11	METAL CHIP	1K	5%	1/16W
R818	1-216-822-11	METAL CHIP	1.2K	5%	1/16W
R819	1-216-824-11	METAL CHIP	1.8K	5%	1/16W
R820	1-216-833-11	METAL CHIP	10K	5%	1/16W
R821	1-216-833-11	METAL CHIP	10K	5%	1/16W
R822	1-216-814-11	METAL CHIP	270	5%	1/16W
R823	1-216-815-11	METAL CHIP	330	5%	1/16W
R824	1-216-817-11	METAL CHIP	470	5%	1/16W
R825	1-216-818-11	METAL CHIP	560	5%	1/16W

CONTROL **DISK SENSOR** **DRIVER** **H/P** **IN OUT SW** **JACK**

Ref. No.	Part No.	Description			Remarks
R826	1-216-819-11	METAL CHIP	680	5%	1/16W
R827	1-216-821-11	METAL CHIP	1K	5%	1/16W
R828	1-216-822-11	METAL CHIP	1.2K	5%	1/16W
R829	1-216-824-11	METAL CHIP	1.8K	5%	1/16W
R830	1-216-826-11	METAL CHIP	2.7K	5%	1/16W
R835	1-216-845-11	METAL CHIP	100K	5%	1/16W
R836	1-216-845-11	METAL CHIP	100K	5%	1/16W
R837	1-216-845-11	METAL CHIP	100K	5%	1/16W
R838	1-216-845-11	METAL CHIP	100K	5%	1/16W
R839	1-216-845-11	METAL CHIP	100K	5%	1/16W
R840	1-216-845-11	METAL CHIP	100K	5%	1/16W
R841	1-216-845-11	METAL CHIP	100K	5%	1/16W
R842	1-216-845-11	METAL CHIP	100K	5%	1/16W
R851	1-249-411-11	CARBON	330	5%	1/4W
R852	1-216-041-00	METAL CHIP	470	5%	1/10W
R855	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R856	1-216-817-11	METAL CHIP	470	5%	1/16W
R859	1-216-818-11	METAL CHIP	560	5%	1/16W
R885	1-249-411-11	CARBON	330	5%	1/4W
R899	1-216-818-11	METAL CHIP	560	5%	1/16W
		< VARIABLE RESISTOR >			
RV801	1-473-392-11	ENCODER, ROTARY(VOLUME)			
RV802	1-418-859-11	ENCODER, ROTARY(TREBLE)			
RV803	1-418-859-11	ENCODER, ROTARY(BASS)			
RV804	1-476-704-11	ENCODER, ROTARY(FUNCTION)			
		< SWITCH >			
S801	1-786-220-11	KEY BOARD SWITCH(CD ▶II)			
S802	1-786-220-11	KEY BOARD SWITCH(CD I◀◀ /◀◀)			
S803	1-786-220-11	KEY BOARD SWITCH(PLAY MODE)			
S804	1-786-220-11	KEY BOARD SWITCH(REPEAT)			
S811	1-786-220-11	KEY BOARD SWITCH(TAPE A ▶▶)			
S812	1-786-220-11	KEY BOARD SWITCH(TAPE A ◀◀)			
S813	1-786-220-11	KEY BOARD SWITCH(TAPE A ▶)			
S814	1-786-220-11	KEY BOARD SWITCH(TAPE A ■)			
S815	1-786-220-11	KEY BOARD SWITCH(DSG)			
S817	1-786-220-11	KEY BOARD SWITCH(CD SYNC)			
S818	1-786-220-11	KEY BOARD SWITCH(TAPE REC ●)			
S819	1-786-220-11	KEY BOARD SWITCH(TAPE B II)			
S820	1-786-220-11	KEY BOARD SWITCH(I/⏻ POWER)			
S821	1-786-220-11	KEY BOARD SWITCH(CD ▶▶I/▶▶)			
S822	1-786-220-11	KEY BOARD SWITCH(CD ■)			
S823	1-786-220-11	KEY BOARD SWITCH(TUNING MODE)			
S824	1-786-220-11	KEY BOARD SWITCH(TUNING +)			
S825	1-786-220-11	KEY BOARD SWITCH(TUNING –)			
S826	1-786-220-11	KEY BOARD SWITCH(TUNER BAND)			
S827	1-786-220-11	KEY BOARD SWITCH(TAPE B ◀◀)			
S828	1-786-220-11	KEY BOARD SWITCH(TAPE B ▶▶)			
S829	1-786-220-11	KEY BOARD SWITCH(TAPE B ■)			
S830	1-786-220-11	KEY BOARD SWITCH(TAPE B ◀▶)			
**********					
	1-678-463-11	DISK SENSOR BOARD			
		**********			
		< IC >			
IC751	8-749-924-30	PHOTO REFLECTOR GP2S28			

Ref. No.	Part No.	Description			Remarks
		< RESISTOR >			
R751	1-249-407-11	CARBON	150	5%	1/4W F
**********					
	1-678-460-11	DRIVER BOARD			
		**********			
		< CAPACITOR >			
C701	1-124-261-00	ELECT	10uF	20%	50V
C705	1-124-261-00	ELECT	10uF	20%	50V
C706	1-164-159-11	CERAMIC	0.1uF		50V
C707	1-164-159-11	CERAMIC	0.1uF		50V
		< CONNECTOR >			
CN701	1-785-324-11	PIN, CONNECTOR (STRAIGHT) 12P			
CN702	1-785-328-11	PIN, CONNECTOR (LIGHT ANGRE)2P			
CN703	1-785-331-11	PIN, CONNECTOR (LIGHT ANGLE)5P			
CN704	1-785-329-11	PIN, CONNECTOR (LIGHT ANGLE)3P			
CN705	1-785-329-21	PIN, CONNECTOR (LIGHT ANGLE)3P			
		< IC >			
IC701	8-759-598-69	IC BA6956AN			
		< TRANSISTOR >			
Q701	8-729-029-66	TRANSISTOR	RT1N141S-TP		
		< RESISTOR >			
R701	1-249-429-11	CARBON	10K	5%	1/4W
R702	1-249-401-11	CARBON	47	5%	1/4W F
R705	1-249-435-11	CARBON	33K	5%	1/4W
R706	1-249-417-11	CARBON	1K	5%	1/4W F
R707	1-249-429-11	CARBON	10K	5%	1/4W
**********					
	1-681-012-11	H/P BOARD			
		**********			
		< CAPACITOR >			
C135	1-163-009-91	CERAMIC CHIP	0.001uF	10.00%	50V
C235	1-163-009-91	CERAMIC CHIP	0.001uF	10.00%	50V
		< JACK >			
J301	1-794-453-11	JACK(PHONES)			
**********					
	1-678-462-11	IN OUT SW BOARD			
		**********			
		< SWITCH >			
S741	1-771-821-11	SWITCH, PUSH (1 KEY)(IN)			
S742	1-771-821-11	SWITCH, PUSH (1 KEY)(OUT)			
**********					
	1-681-013-11	JACK BOARD			
		**********			
		< CONNECTOR >			
CN305	1-506-468-11	PIN, CONNECTOR 3P			

JACK **LCD** **LED** **MAIN**

Ref. No.	Part No.	Description			Remarks
		< JACK >			
PJ301	1-815-577-11	PIN JACK (PHONO) 2P(AUDIO IN MD)			
		< RESISTOR >			
R116	1-216-834-11	METAL CHIP	12K	5%	1/16W
R117	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R216	1-216-834-11	METAL CHIP	12K	5%	1/16W
R217	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
**********					
	1-681-011-11	LCD BOARD			
		**********			
		< CONNECTOR >			
CN302	1-569-928-11	SOCKET, CONNECTOR 11P			
CN304	1-569-937-11	SOCKET, CONNECTOR 21P			
		< DIODE >			
D801	8-719-084-70	DIODE SY3318-VS1-T(LCD BACK LIGT)			
D802	8-719-084-70	DIODE SY3318-VS1-T(LCD BACK LIGT)			
D803	8-719-084-70	DIODE SY3318-VS1-T(LCD BACK LIGT)			
D804	8-719-084-70	DIODE SY3318-VS1-T(LCD BACK LIGT)			
**********					
	1-681-016-11	LED BOARD			
		**********			
		< DIODE >			
D811	8-719-056-12	DIODE SML79420C-TP15(CD3)			
D812	8-719-056-12	DIODE SML79420C-TP15(CD2)			
D813	8-719-056-12	DIODE SML79420C-TP15(CD1)			
		< TRANSISTOR >			
Q809	8-729-900-53	TRANSISTOR	DTC114EKA-T146		
Q810	8-729-900-53	TRANSISTOR	DTC114EKA-T146		
Q811	8-729-900-53	TRANSISTOR	DTC114EKA-T146		
Q812	8-729-900-53	TRANSISTOR	DTC114EKA-T146		
Q813	8-729-900-53	TRANSISTOR	DTC114EKA-T146		
Q814	8-729-900-53	TRANSISTOR	DTC114EKA-T146		
		< RESISTOR >			
R806	1-216-819-11	METAL CHIP	680	5%	1/16W
R807	1-216-821-11	METAL CHIP	1K	5%	1/16W
R808	1-216-822-11	METAL CHIP	1.2K	5%	1/16W
R809	1-216-824-11	METAL CHIP	1.8K	5%	1/16W
R810	1-216-826-11	METAL CHIP	2.7K	5%	1/16W
R845	1-216-819-11	METAL CHIP	680	5%	1/16W
R846	1-216-819-11	METAL CHIP	680	5%	1/16W
R847	1-216-819-11	METAL CHIP	680	5%	1/16W
R848	1-216-819-11	METAL CHIP	680	5%	1/16W
R849	1-216-819-11	METAL CHIP	680	5%	1/16W
R850	1-216-819-11	METAL CHIP	680	5%	1/16W
		< SWITCH >			
S805	1-786-220-11	KEY BOARD SWITCH(CD3⏏)			
S806	1-786-220-11	KEY BOARD SWITCH(CD3)			
S807	1-786-220-11	KEY BOARD SWITCH(CD2⏏)			
S808	1-786-220-11	KEY BOARD SWITCH(CD2)			
S809	1-786-220-11	KEY BOARD SWITCH(CD1⏏)			

Ref. No.	Part No.	Description			Remarks
S810	1-786-220-11	KEY BOARD SWITCH(CD1)			
**********					
	A-2007-970-A	MAIN BOARD, COMPLETE (AEP,UK)			
		**********			
	A-4726-203-A	MAIN BOARD, COMPLETE (CND,MX)			
		**********			
	A-4726-205-A	MAIN BOARD, COMPLETE (EA,SP,MY)			
		**********			
	4-217-354-11	BUSHING, INSULATING			
	4-230-078-01	SCREW, +BV TAPPING			
	7-685-546-14	SCREW +BTP	3X8	TYPE2 N-S	
	7-685-647-79	SCREW +BVTP	3X10	TYPE2 N-S	
		< CAPACITOR >			
C101	1-126-963-11	ELECT	4.7uF	20.00%	50V
C102	1-126-963-11	ELECT	4.7uF	20.00%	50V
C103	1-126-963-11	ELECT	4.7uF	20.00%	50V (CND,EA,MX,SP,MY)
C103	1-124-259-11	ELECT	4.7uF	20.00%	16V (AEP,UK)
C104	1-126-963-11	ELECT	4.7uF	20.00%	50V
C105	1-126-963-11	ELECT	4.7uF	20.00%	50V
C106	1-126-963-11	ELECT	4.7uF	20.00%	50V
C107	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V (CND,EA,MX,SP,MY)
C107	1-164-245-11	CERAMIC CHIP	0.015uF	10.00%	25V (AEP,UK)
C108	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C110	1-126-963-11	ELECT	4.7uF	20.00%	50V
C111	1-164-245-11	CERAMIC CHIP	0.015uF	10.00%	25V
C112	1-164-245-11	CERAMIC CHIP	0.015uF	10.00%	25V
C113	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C114	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C115	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C118	1-126-963-11	ELECT	4.7uF	20.00%	50V (CND,EA,MX,SP,MY)
C118	1-124-259-11	ELECT	4.7uF	20.00%	16V (AEP,UK)
C119	1-126-963-11	ELECT	4.7uF	20.00%	50V
C121	1-126-963-11	ELECT	4.7uF	20.00%	50V
C122	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C126	1-126-965-11	ELECT	22uF	20.00%	50V
C127	1-130-495-00	MYLAR	0.1uF	5%	50V
C132	1-104-665-11	ELECT	100uF	20.00%	16V
C133	1-130-495-00	MYLAR	0.1uF	5%	50V
C150	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V (CND,EA,MX,SP,MY)
C150	1-162-927-11	CERAMIC CHIP	100PF	5%	50V (AEP,UK)
C151	1-162-927-11	CERAMIC CHIP	100PF	5%	50V (CND,EA,MX,SP,MY)
C151	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V (AEP,UK)
C201	1-126-964-11	ELECT	10uF	20.00%	50V (CND,EA,MX,SP,MY)
C201	1-126-963-11	ELECT	4.7uF	20.00%	50V (AEP,UK)
C202	1-126-963-11	ELECT	4.7uF	20.00%	50V (CND,EA,MX,SP,MY)

Ref. No.	Part No.	Description			Remarks
C202	1-124-259-11	ELECT	4.7uF	20.00%	16V (AEP,UK)
C203	1-126-963-11	ELECT	4.7uF	20.00%	50V
C204	1-126-963-11	ELECT	4.7uF	20.00%	50V
C205	1-126-963-11	ELECT	4.7uF	20.00%	50V
C206	1-126-963-11	ELECT	4.7uF	20.00%	50V
C207	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V (CND,EA,MX,SP,MY)
C207	1-164-245-11	CERAMIC CHIP	0.015uF	10.00%	25V (AEP,UK)
C208	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C210	1-126-963-11	ELECT	4.7uF	20.00%	50V
C211	1-164-245-11	CERAMIC CHIP	0.015uF	10.00%	25V
C212	1-164-245-11	CERAMIC CHIP	0.015uF	10.00%	25V
C213	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C214	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C215	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C218	1-126-963-11	ELECT	4.7uF	20.00%	50V
C219	1-126-963-11	ELECT	4.7uF	20.00%	50V
C221	1-126-963-11	ELECT	4.7uF	20.00%	50V
C222	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C226	1-126-965-11	ELECT	22uF	20.00%	50V
C227	1-130-495-00	MYLAR	0.1uF	5%	50V
C232	1-104-665-11	ELECT	100uF	20.00%	16V
C233	1-130-495-00	MYLAR	0.1uF	5%	50V
C250	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V (CND,EA,MX,SP,MY)
C250	1-162-927-11	CERAMIC CHIP	100PF	5%	50V (AEP,UK)
C251	1-162-927-11	CERAMIC CHIP	100PF	5%	50V (CND,EA,MX,SP,MY)
C251	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V (AEP,UK)
C301	1-126-955-11	ELECT	4700uF	20.00%	35V
C302	1-126-955-11	ELECT	4700uF	20.00%	35V
C303	1-115-339-11	CERAMIC CHIP	0.1uF	10.00%	50V
C304	1-115-339-11	CERAMIC CHIP	0.1uF	10.00%	50V
C305	1-126-941-11	ELECT	470uF	20.00%	16V
C306	1-126-767-11	ELECT	1000uF	20.00%	16V
C307	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C311	1-104-665-11	ELECT	100uF	20.00%	16V
C312	1-126-942-11	ELECT	1000uF	20.00%	25V
C313	1-126-944-11	ELECT	3300uF	20.00%	25V
C314	1-104-666-11	ELECT	220uF	20.00%	16V
C315	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C316	1-104-666-11	ELECT	220uF	20.00%	16V
C317	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C320	1-126-941-11	ELECT	470uF	20.00%	16V
C321	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C322	1-104-665-11	ELECT	100uF	20.00%	16V
C323	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C324	1-104-666-11	ELECT	220uF	20.00%	16V
C325	1-104-665-11	ELECT	100uF	20.00%	16V
C329	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C330	1-104-665-11	ELECT	100uF	20.00%	16V
C331	1-104-665-11	ELECT	100uF	20.00%	16V
C333	1-126-964-11	ELECT	10uF	20.00%	50V
C334	1-124-119-00	ELECT	330uF	20%	16V
C337	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C338	1-126-963-11	ELECT	4.7uF	20.00%	50V
C340	1-126-965-11	ELECT	22uF	20.00%	50V
C350	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C351	1-104-664-11	ELECT	47uF	20.00%	25V
C352	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C353	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C354	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C355	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V (CND,EA,MX,SP,MY)
C356	1-126-941-11	ELECT	470uF	20.00%	16V
C365	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C371	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V (AEP,UK)
C372	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V (AEP,UK)
C373	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V (AEP,UK)
C374	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V (AEP,UK)
C375	1-162-970-11	CERAMIC CHIP	0.01uF	10%	50V (AEP,UK)
C390	1-164-230-11	CERAMIC CHIP	220PF	5.00%	50V
C391	1-164-230-11	CERAMIC CHIP	220PF	5.00%	50V
C392	1-164-230-11	CERAMIC CHIP	220PF	5.00%	50V
C393	1-164-230-11	CERAMIC CHIP	220PF	5.00%	50V
C394	1-164-230-11	CERAMIC CHIP	220PF	5.00%	50V
C395	1-164-230-11	CERAMIC CHIP	220PF	5.00%	50V
C396	1-164-230-11	CERAMIC CHIP	220PF	5.00%	50V (CND,EA,MX,SP,MY)
C397	1-126-963-11	ELECT	4.7uF	20.00%	50V (AEP,UK)
C398	1-163-227-11	CERAMIC CHIP	10PF	0.50PF	50V (AEP,UK)
C399	1-162-963-11	CERAMIC CHIP	680PF	10%	50V (AEP,UK)
C400	1-163-227-11	CERAMIC CHIP	10PF	0.50PF	50V (AEP,UK)
C601	1-125-891-11	CERAMIC CHIP	0.47uF	10.00%	10V
C602	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C603	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C801	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C802	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C803	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C804	1-164-160-11	CERAMIC CHIP	20PF	5.00%	50V
C805	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C806	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C807	1-104-665-11	ELECT	100uF	20.00%	16V
C810	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C811	1-107-826-11	CERAMIC CHIP	0.1uF	10.00%	16V
C812	1-104-664-11	ELECT	47uF	20.00%	16V
C813	1-115-456-21	CAPACITOR	0.22F		5.5V
C815	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V (AEP,UK)
C816	1-104-664-11	ELECT	47uF	20.00%	16V (AEP,UK)
C817	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V (AEP,UK)
C818	1-164-185-11	CERAMIC CHIP	13PF	5.00%	50V (AEP,UK)
C821	1-162-961-11	CERAMIC CHIP	330PF	10%	50V (AEP,UK)
C822	1-126-961-11	ELECT	2.2uF	20.00%	50V (AEP,UK)

MAIN

Ref. No.	Part No.	Description			Remarks
C823	1-164-185-11	CERAMIC CHIP	13PF	5.00%	50V (AEP,UK)
C824	1-164-739-11	CERAMIC CHIP	560PF	5.00%	50V (AEP,UK)
C888	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
		< CONNECTOR >			
CN302	1-569-928-11	SOCKET, CONNECTOR 11P			
CN303	1-569-928-11	SOCKET, CONNECTOR 11P			
CN307	1-506-469-11	PIN, CONNECTOR 4P			
* CN313	1-568-939-11	PIN, CONNECTOR 12P			
CN801	1-793-600-11	CONNECTOR, FFC/FPC (ZIF) 17P			
CN802	1-793-599-11	CONNECTOR, FFC/FPC (ZIF) 17P			
CN803	1-793-602-11	CONNECTOR, FFC/FPC (ZIF) 21P			
CN804	1-793-601-11	CONNECTOR, FFC/FPC (ZIF) 21P			
CN805	1-568-834-11	SOCKET, CONNECTOR 15P			
* CN806	1-569-934-11	SOCKET, CONNECTOR 17P			
* CN809	1-506-984-11	PIN, CONNECTOR (PC BOARD) 2P			
* CN810	1-506-984-11	PIN, CONNECTOR (PC BOARD) 2P			
		< DIODE >			
D309	8-719-110-08	DIODE	MTZJ-T-77-8.2B (CND,EA,MX,SP,MY)		
D309	8-719-109-97	DIODE	MTZJ-T-77-6.8C (AEP,UK)		
D314	8-719-109-89	DIODE	MTZJ-T-77-5.6B		
D319	8-719-921-63	DIODE	MTZJ-T-77-7.5B		
D321	8-719-110-31	DIODE	MTZJ-T-77-12B		
D323	8-719-110-14	DIODE	MTZJ-T-77-9.1C		
D350	8-719-109-89	DIODE	MTZJ-T-77-5.6B		
D805	8-719-982-11	DIODE	MTZJ-T-77-4.3B (AEP,UK)		
D806	8-719-991-33	DIODE	1SS133T-77		
D807	8-719-991-33	DIODE	1SS133T-77		
D808	8-719-991-33	DIODE	1SS133T-77		
D809	8-719-200-82	DIODE	11ES2-TA1B		
D810	8-719-200-82	DIODE	11ES2-TA1B		
D825	8-719-991-33	DIODE	1SS133T-77		
D827	8-719-991-33	DIODE	1SS133T-77		
		<TERMINAL>			
GP301	1-537-770-11	TERMINAL BOARD, GROUND			
GP302	1-537-770-11	TERMINAL BOARD, GROUND			
		< IC >			
IC101	8-759-584-38	IC	TDA7296		
IC201	8-759-584-38	IC	TDA7296		
IC301	6-700-261-01	IC	BD3861FS		
IC303	8-759-359-49	IC	NJM3414AV(TE2)		
IC304	8-759-646-54	IC	KIA7808API		
IC305	8-759-584-40	IC	KA7908		
IC308	8-749-016-00	IC	HVE0024		
IC311	8-759-646-54	IC	KIA7808API		
IC601	6-800-361-01	IC	M30622MGA-A67FP		
IC602	8-759-153-90	IC	uPD7225GB-3B7		
IC603	8-759-557-36	IC	BU1924F-E2 (AEP,UK)		
IC604	8-759-637-58	IC	PST592C-T		
IC606	6-700-176-01	IC	MC74VHCT04ADTR2		
		< JUMPER RESISTOR >			
JR304	1-216-295-00	SHORT	0 (AEP,UK)		
JR307	1-216-295-00	SHORT	0 (AEP,UK)		
JR308	1-216-295-00	SHORT	0 (AEP,UK)		
		< COIL >			
L101	1-420-872-00	COIL, AIR-CORE			
L102	1-410-750-11	MICCRO INDUCTOR (AEP,UK)			
L201	1-420-872-00	COIL, AIR-CORE			
		< LIQUID CRYSTAL DISPLAY >			
LCD801	1-803-542-11	DISPLAY PANEL, LIQUID CRYSTAL			
		< TRANSISTOR >			
Q110	8-729-920-31	TRANSISTOR	DTC343TK-T-146		
Q150	8-729-920-31	TRANSISTOR	DTC343TK-T-146		
Q210	8-729-920-31	TRANSISTOR	DTC343TK-T-146		
Q250	8-729-920-31	TRANSISTOR	DTC343TK-T-146		
Q303	8-729-038-55	TRANSISTOR	KRA103S		
Q304	8-729-038-67	TRANSISTOR	KRC102S		
Q305	8-729-900-53	TRANSISTOR	DTC114EKA-T146		
Q310	8-729-019-00	TRANSISTOR	KTC2026		
Q311	8-759-068-54	TRANSISTOR	KRA102S		
Q312	8-729-038-68	TRANSISTOR	KRC103S		
Q314	8-729-028-54	TRANSISTOR	KTC3205-Y-AT		
Q315	8-759-068-54	TRANSISTOR	KRA102S		
Q316	8-729-038-68	TRANSISTOR	KRC103S		
Q330	8-729-038-68	TRANSISTOR	KRC103S		
Q350	8-729-019-00	TRANSISTOR	KTC2026		
Q360	8-729-028-54	TRANSISTOR	KTC3205-Y-AT		
Q361	8-729-202-56	TRANSISTOR	2SA950-Y-TPE2		
Q362	8-729-038-68	TRANSISTOR	KRC103S		
Q364	8-729-202-56	TRANSISTOR	2SA950-Y-TPE2		
Q365	8-729-038-68	TRANSISTOR	KRC103S		
Q366	8-729-202-56	TRANSISTOR	2SA950-Y-TPE2		
Q367	8-729-038-68	TRANSISTOR	KRC103S		
Q801	8-729-120-28	TRANSISTOR	2SC2412K-T-146-R (AEP,UK)		
Q802	8-729-037-02	TRANSISTOR	KTA1266Y-AT		
Q803	8-729-038-67	TRANSISTOR	KRC102S		
Q804	8-729-038-67	TRANSISTOR	KRC102S		
Q805	8-729-037-02	TRANSISTOR	KTA1266Y-AT		
Q806	8-729-038-67	TRANSISTOR	KRC102S		
Q808	8-729-120-28	TRANSISTOR	2SC2412K-T-146-R		
Q830	8-729-037-02	TRANSISTOR	KTA1266Y-AT		
Q831	8-729-038-67	TRANSISTOR	KRC102S		
		< RESISTOR >			
R101	1-216-821-11	METAL CHIP	1K	5%	1/16W
R102	1-216-821-11	METAL CHIP	1K	5%	1/16W
R104	1-216-833-11	METAL CHIP	10K	5%	1/16W
R105	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R106	1-216-833-11	METAL CHIP	10K	5%	1/16W
R107	1-216-832-11	METAL CHIP	8.2K	5%	1/16W
R108	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R109	1-216-821-11	METAL CHIP	1K	5%	1/16W
R112	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R119	1-216-841-11	METAL CHIP	47K	5%	1/16W
R121	1-216-808-11	METAL CHIP	82	5%	1/16W
R123	1-216-817-11	METAL CHIP	470	5%	1/16W

Ref. No.	Part No.	Description			Remarks
R124	1-216-839-11	METAL CHIP	33K	5%	1/16W
R125	1-216-839-11	METAL CHIP	33K	5%	1/16W
R126	1-216-845-11	METAL CHIP	100K	5%	1/16W
R127	1-249-389-11	CARBON	4.7	5%	1/4W F
R130	1-216-821-11	METAL CHIP	1K	5%	1/16W
R131	1-216-817-11	METAL CHIP	470	5%	1/16W
R133	1-216-821-11	METAL CHIP	1K	5%	1/16W
R201	1-216-821-11	METAL CHIP	1K	5%	1/16W
R202	1-216-821-11	METAL CHIP	1K	5%	1/16W
R204	1-216-833-11	METAL CHIP	10K	5%	1/16W
R205	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R206	1-216-833-11	METAL CHIP	10K	5%	1/16W
R207	1-216-832-11	METAL CHIP	8.2K	5%	1/16W
R208	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R209	1-216-821-11	METAL CHIP	1K	5%	1/16W
R212	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R219	1-216-841-11	METAL CHIP	47K	5%	1/16W
R221	1-216-808-11	METAL CHIP	82	5%	1/16W
R223	1-216-817-11	METAL CHIP	470	5%	1/16W
R224	1-216-839-11	METAL CHIP	33K	5%	1/16W
R225	1-216-839-11	METAL CHIP	33K	5%	1/16W
R226	1-216-845-11	METAL CHIP	100K	5%	1/16W
R227	1-249-389-11	CARBON	4.7	5%	1/4W F
R230	1-216-821-11	METAL CHIP	1K	5%	1/16W
R231	1-216-817-11	METAL CHIP	470	5%	1/16W
R233	1-216-821-11	METAL CHIP	1K	5%	1/16W
R303	1-216-805-11	METAL CHIP	47	5%	1/16W
R310	1-216-805-11	METAL CHIP	47	5%	1/16W
R314	1-216-817-11	METAL CHIP	470	5%	1/16W
R317	1-216-821-11	METAL CHIP	1K	5%	1/16W
R318	1-216-805-11	METAL CHIP	47	5%	1/16W
R325	1-216-841-11	METAL CHIP	47K	5%	1/16W
R326	1-216-841-11	METAL CHIP	47K	5%	1/16W
R334	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R335	1-216-833-11	METAL CHIP	10K	5%	1/16W
R336	1-216-833-11	METAL CHIP	10K	5%	1/16W
R343	1-216-841-11	METAL CHIP	47K	5%	1/16W
R345	1-216-843-11	METAL CHIP	68K	5%	1/16W
R346	1-216-843-11	METAL CHIP	68K	5%	1/16W
R347	1-216-841-11	METAL CHIP	47K	5%	1/16W
R348	1-216-841-11	METAL CHIP	47K	5%	1/16W
R350	1-216-833-11	METAL CHIP	10K	5%	1/16W
R351	1-216-817-11	METAL CHIP	470	5%	1/16W
R353	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R356	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R357	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R358	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R359	1-216-841-11	METAL CHIP	47K	5%	1/16W
R360	1-216-841-11	METAL CHIP	47K	5%	1/16W
R361	1-216-841-11	METAL CHIP	47K	5%	1/16W
R390	1-249-414-11	CARBON	560	5%	1/4W F
R501	1-216-295-00	SHORT	0 (CND,EA,MX,SP,MY)		
R502	1-216-295-00	SHORT	0 (CND,EA,MX,SP,MY)		
R503	1-216-295-00	SHORT	0 (CND,EA,MX,SP,MY)		
R504	1-216-295-00	SHORT	0 (CND,EA,MX,SP,MY)		
R505	1-216-295-00	SHORT	0 (CND,EA,MX,SP,MY)		
R506	1-216-295-00	SHORT	0 (CND,EA,MX,SP,MY)		
R507	1-216-295-00	SHORT	0 (CND,EA,MX,SP,MY)		
R508	1-216-295-00	SHORT	0 (CND,EA,MX,SP,MY)		
R509	1-216-295-00	SHORT	0 (CND,EA,MX,SP,MY)		
R510	1-216-295-00	SHORT	0 (CND,EA,MX,SP,MY)		
R511	1-216-295-00	SHORT	0 (CND,EA,MX,SP,MY)		
R512	1-216-295-00	SHORT	0 (CND,EA,MX,SP,MY)		
R513	1-216-846-11	METAL CHIP	120K	5%	1/16W
R517	1-216-833-11	METAL CHIP	10K	5%	1/16W
R518	1-216-833-11	METAL CHIP	10K	5%	1/16W
R519	1-216-833-11	METAL CHIP	10K	5%	1/16W
R520	1-216-837-11	METAL CHIP	22K	5%	1/16W
R522	1-216-821-11	METAL CHIP	1K	5%	1/16W
R523	1-216-821-11	METAL CHIP	1K	5%	1/16W
R524	1-216-833-11	METAL CHIP	10K	5%	1/16W
R526	1-216-833-11	METAL CHIP	10K	5%	1/16W
R527	1-216-833-11	METAL CHIP	10K	5%	1/16W
R530	1-216-295-00	SHORT	0 (CND,EA,MX,SP,MY)		
R531	1-216-295-00	SHORT	0 (CND,EA,MX,SP,MY)		
R532	1-216-295-00	SHORT	0 (CND,EA,MX,SP,MY)		
R533	1-216-295-00	SHORT	0 (CND,EA,MX,SP,MY)		
R534	1-216-295-00	SHORT	0 (CND,EA,MX,SP,MY)		
R535	1-216-295-00	SHORT	0 (CND,EA,MX,SP,MY)		
R536	1-216-295-00	SHORT	0 (CND,EA,MX,SP,MY)		
R537	1-216-295-00	SHORT	0 (CND,EA,MX,SP,MY)		
R538	1-216-295-00	SHORT	0 (CND,EA,MX,SP,MY)		
R539	1-216-295-00	SHORT	0 (CND,EA,MX,SP,MY)		
R540	1-216-295-00	SHORT	0 (CND,EA,MX,SP,MY)		
R541	1-216-295-00	SHORT	0 (CND,EA,MX,SP,MY)		
R543	1-216-295-00	SHORT	0 (CND,EA,MX,SP,MY)		
R544	1-216-295-00	SHORT	0 (CND,EA,MX,SP,MY)		
R545	1-216-295-00	SHORT	0 (CND,EA,MX,SP,MY)		
R546	1-216-295-00	SHORT	0 (CND,EA,MX,SP,MY)		
R547	1-216-295-00	SHORT	0 (CND,EA,MX,SP,MY)		
R548	1-216-295-00	SHORT	0 (CND,EA,MX,SP,MY)		
R549	1-216-295-00	SHORT	0 (CND,EA,MX,SP,MY)		
R550	1-216-295-00	SHORT	0 (CND,EA,MX,SP,MY)		
R551	1-216-295-00	SHORT	0 (CND,EA,MX,SP,MY)		
R552	1-216-295-00	SHORT	0 (CND,EA,MX,SP,MY)		
R553	1-216-295-00	SHORT	0 (CND,EA,MX,SP,MY)		
R554	1-216-295-00	SHORT	0 (CND,EA,MX,SP,MY)		
R603	1-216-841-11	METAL CHIP	47K	5%	1/16W
R604	1-216-821-11	METAL CHIP	1K	5%	1/16W
R605	1-216-295-00	SHORT	0		
R606	1-216-295-00	SHORT	0 (CND,EA,MX,SP,MY)		
R607	1-216-295-00	SHORT	0 (CND,EA,MX,SP,MY)		
R609	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R616	1-249-403-11	CARBON	68	5%	1/4W F
R617	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R618	1-216-295-00	SHORT	0 (CND,EA,MX,SP,MY)		
R619	1-216-295-00	SHORT	0 (CND,EA,MX,SP,MY)		
R620	1-216-295-00	SHORT	0 (CND,EA,MX,SP,MY)		
R621	1-216-295-00	SHORT	0 (CND,EA,MX,SP,MY)		
R622	1-216-295-00	SHORT	0 (CND,EA,MX,SP,MY)		
R623	1-216-295-00	SHORT	0 (CND,EA,MX,SP,MY)		
R624	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R625	1-216-295-00	SHORT	0 (CND,EA,MX,SP,MY)		
R626	1-216-849-11	METAL CHIP	220K	5%	1/16W
R627	1-216-295-00	SHORT	0 (CND,EA,MX,SP,MY)		
R628	1-216-845-11	METAL CHIP	100K	5%	1/16W

MAIN

Ref. No.	Part No.	Description			Remarks
R629	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R630	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R632	1-216-295-00	SHORT	0 (CND,EA,MX,SP,MY)		
R633	1-216-295-00	SHORT	0 (CND,EA,MX,SP,MY)		
R634	1-216-295-00	SHORT	0 (CND,EA,MX,SP,MY)		
R635	1-216-295-00	SHORT	0 (CND,EA,MX,SP,MY)		
R636	1-216-295-00	SHORT	0 (CND,EA,MX,SP,MY)		
R637	1-216-295-00	SHORT	0 (CND,EA,MX,SP,MY)		
R638	1-216-295-00	SHORT	0 (CND,EA,MX,SP,MY)		
R639	1-216-295-00	SHORT	0 (CND,EA,MX,SP,MY)		
R640	1-216-295-00	SHORT	0 (CND,EA,MX,SP,MY)		
R641	1-216-295-00	SHORT	0 (CND,EA,MX,SP,MY)		
R642	1-216-295-00	SHORT	0 (CND,EA,MX,SP,MY)		
R643	1-216-295-00	SHORT	0 (CND,EA,MX,SP,MY)		
R644	1-216-295-00	SHORT	0		
R645	1-216-295-00	SHORT	0 (CND,EA,MX,SP,MY)		
R646	1-216-295-00	SHORT	0		
R647	1-216-295-00	SHORT	0		
R648	1-216-295-00	SHORT	0 (CND,EA,MX,SP,MY)		
R649	1-216-295-00	SHORT	0 (CND,EA,MX,SP,MY)		
R650	1-216-295-00	SHORT	0 (CND,EA,MX,SP,MY)		
R651	1-216-295-00	SHORT	0 (CND,EA,MX,SP,MY)		
R653	1-216-295-00	SHORT	0 (CND,EA,MX,SP,MY)		
R654	1-216-295-00	SHORT	0 (CND,EA,MX,SP,MY)		
R655	1-216-295-00	SHORT	0 (CND,EA,MX,SP,MY)		
R656	1-216-295-00	SHORT	0 (CND,EA,MX,SP,MY)		
R657	1-216-295-00	SHORT	0 (CND,EA,MX,SP,MY)		
R658	1-216-295-00	SHORT	0 (CND,EA,MX,SP,MY)		
R659	1-216-295-00	SHORT	0 (CND,EA,MX,SP,MY)		
R660	1-216-295-00	SHORT	0 (CND,EA,MX,SP,MY)		
R661	1-216-295-00	SHORT	0 (CND,EA,MX,SP,MY)		
R663	1-216-295-00	SHORT	0 (CND,EA,MX,SP,MY)		
R665	1-216-295-00	SHORT	0 (CND,EA,MX,SP,MY)		
R666	1-216-295-00	SHORT	0 (CND,EA,MX,SP,MY)		
R667	1-216-295-00	SHORT	0		
R668	1-216-295-00	SHORT	0 (CND,EA,MX,SP,MY)		
R669	1-216-821-11	METAL CHIP	1K	5%	1/16W
R670	1-216-821-11	METAL CHIP	1K	5%	1/16W
R671	1-216-295-00	SHORT	0 (CND,EA,MX,SP,MY)		
R671	1-216-821-11	METAL CHIP	1K	5%	1/16W (AEP,UK)
R672	1-216-295-00	SHORT	0 (CND,EA,MX,SP,MY)		
R672	1-216-821-11	METAL CHIP	1K	5%	1/16W (AEP,UK)
R673	1-216-295-00	SHORT	0 (CND,EA,MX,SP,MY)		
R673	1-216-821-11	METAL CHIP	1K	5%	1/16W (AEP,UK)
R674	1-216-821-11	METAL CHIP	1K	5%	1/16W
R675	1-216-295-00	SHORT	0 (CND,EA,MX,SP,MY)		
R675	1-216-821-11	METAL CHIP	1K	5%	1/16W (AEP,UK)
R676	1-216-295-00	SHORT	0 (CND,EA,MX,SP,MY)		
R676	1-216-821-11	METAL CHIP	1K	5%	1/16W (AEP,UK)
R677	1-216-295-00	SHORT	0 (CND,EA,MX,SP,MY)		
R677	1-216-821-11	METAL CHIP	1K	5%	1/16W (AEP,UK)
R678	1-216-295-00	SHORT	0		
R679	1-216-295-00	SHORT	0 (CND,EA,MX,SP,MY)		
R680	1-216-295-00	SHORT	0 (CND,EA,MX,SP,MY)		
R682	1-216-295-00	SHORT	0 (CND,EA,MX,SP,MY)		
R683	1-216-295-00	SHORT	0 (CND,EA,MX,SP,MY)		
R684	1-216-295-00	SHORT	0 (CND,EA,MX,SP,MY)		
R685	1-216-295-00	SHORT	0 (CND,EA,MX,SP,MY)		
R686	1-216-295-00	SHORT	0 (CND,EA,MX,SP,MY)		
R687	1-216-295-00	SHORT	0 (CND,EA,MX,SP,MY)		
R688	1-216-295-00	SHORT	0		
R689	1-216-821-11	METAL CHIP	1K	5%	1/16W
R690	1-216-821-11	METAL CHIP	1K	5%	1/16W
R691	1-216-821-11	METAL CHIP	1K	5%	1/16W
R692	1-216-295-00	SHORT	0 (CND,EA,MX,SP,MY)		
R693	1-216-295-00	SHORT	0 (CND,EA,MX,SP,MY)		
R694	1-216-295-00	SHORT	0 (CND,EA,MX,SP,MY)		
R695	1-216-829-11	METAL CHIP	4.7K	5%	1/16W (CND,AEP,UK,MX)
R695	1-216-295-00	SHORT	0 (EA,SP,MY)		
R698	1-216-295-91	SHORT	0 (CND,EA,MX,SP,MY)		
R699	1-216-825-11	METAL CHIP	2.2K	5%	1/16W (CND,MX)
R699	1-216-829-11	METAL CHIP	4.7K	5%	1/16W (EA,SP,MY)
R699	1-216-295-00	SHORT	0 (AEP,UK)		
R854	1-216-818-11	METAL CHIP	560	5%	1/16W
R860	1-216-829-11	METAL CHIP	4.7K	5%	1/16W (AEP,UK)
R861	1-216-853-11	METAL CHIP	470K	5%	1/16W (AEP,UK)
R862	1-216-845-11	METAL CHIP	100K	5%	1/16W (AEP,UK)
R863	1-216-821-11	METAL CHIP	1K	5%	1/16W (AEP,UK)
R864	1-216-814-11	METAL CHIP	270	5%	1/16W (AEP,UK)
R865	1-216-841-11	METAL CHIP	47K	5%	1/16W (AEP,UK)
R866	1-216-810-11	METAL CHIP	120	5%	1/16W (CND,EA,MX,SP,MY)
R866	1-216-809-11	METAL CHIP	100	5%	1/16W (AEP,UK)
R867	1-216-843-11	METAL CHIP	68K	5%	1/16W (AEP,UK)
R868	1-216-810-11	METAL CHIP	120	5%	1/16W (CND,EA,MX,SP,MY)
R869	1-216-833-11	METAL CHIP	10K	5%	1/16W
R870	1-216-841-11	METAL CHIP	47K	5%	1/16W
R871	1-216-841-11	METAL CHIP	47K	5%	1/16W
R872	1-216-837-11	METAL CHIP	22K	5%	1/16W
R873	1-216-837-11	METAL CHIP	22K	5%	1/16W
R874	1-216-837-11	METAL CHIP	22K	5%	1/16W
R875	1-216-815-11	METAL CHIP	330	5%	1/16W
R876	1-216-841-11	METAL CHIP	47K	5%	1/16W
R877	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R878	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R879	1-249-408-11	CARBON	180	5%	1/4W F
R880	1-249-408-11	CARBON	180	5%	1/4W F
R881	1-216-841-11	METAL CHIP	47K	5%	1/16W
R882	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R890	1-216-841-11	METAL CHIP	47K	5%	1/16W
R891	1-216-829-11	METAL CHIP	4.7K	5%	1/16W

Ref. No.	Part No.	Description				Remarks
		<TERMINAL>				
SJ301	1-694-820-11	TERMINAL BOARD				
		< VIBRATOR >				
X801	1-567-098-41	VIBRATOR, CRYSTAL(32.768kHz)				
X802	1-781-107-21	VIBRATOR, SERAMIC(16MHz)				
X803	1-579-242-41	VIBRATOR, CRYSTAL(4.332MHz)(AEP,UK)				
**********						
	1-678-461-11	MOTOR BOARD				
		**********				
		< CAPACITOR >				
C721	1-162-306-11	CERAMIC	0.01uF	30.00%	16V	
**********						
	A-4726-204-A	POWER BOARD, COMPLETE (CND,MX)				
		**********				
	A-4726-206-A	POWER BOARD, COMPLETE (EA,SP,MY)				
		**********				
	A-2007-977-A	POWER BOARD, COMPLETE (AEP,UK)				
		**********				
	1-533-313-11	HOLDER, FUSE				
		< CAPACITOR >				
C907	1-101-005-00	CERAMIC	22000PF	50V		
C908	1-101-005-00	CERAMIC	22000PF	50V		
C909	1-101-005-00	CERAMIC	22000PF	50V		
C910	1-101-005-00	CERAMIC	22000PF	50V		
C911	1-161-494-00	CERAMIC	0.022uF	25V		
C912	1-161-494-00	CERAMIC	0.022uF	25V		
C913	1-161-494-00	CERAMIC	0.022uF	25V		
C914	1-161-494-00	CERAMIC	0.022uF	25V		
C925	1-161-494-00	CERAMIC	0.022uF	25V		
						(CND,EA,MX,SP,MY)
C925	1-101-005-00	CERAMIC	22000PF	50V		(AEP,UK)
C927	1-126-941-11	ELECT	470uF	20.00%	16V	
						(CND,EA,MX,SP,MY)
C927	1-126-767-11	ELECT	1000uF	20.00%	16V	
						(AEP,UK)
C928	1-104-666-11	ELECT	220uF	20.00%	16V	
C930	1-104-665-11	ELECT	100uF	20.00%	16V	
		< CONNECTOR >				
CN901	1-564-321-00	PIN, CONNECTOR 2P				
CN902	1-766-282-11	PIN, CONNECTOR (PC BOARD) 9P				
		< DIODE >				
D901	8-719-991-33	DIODE 1SS133T-77				
D903	8-719-991-33	DIODE 1SS133T-77				
D904	8-719-991-33	DIODE 1SS133T-77				
D905	8-719-991-33	DIODE 1SS133T-77				
D906	8-719-991-33	DIODE 1SS133T-77				
D907	8-719-902-17	DIODE 1N5401				
D908	8-719-902-17	DIODE 1N5401				
D909	8-719-902-17	DIODE 1N5401				
D910	8-719-902-17	DIODE 1N5401				
D911	8-719-046-07	DIODE 2A02M				

Ref. No.	Part No.	Description				Remarks
D912	8-719-046-07	DIODE 2A02M				
D913	8-719-046-07	DIODE 2A02M				
D914	8-719-046-07	DIODE 2A02M				
D915	8-719-109-97	DIODE MTZJ-T-77-6.8C				
D920	8-719-200-82	DIODE 11ES2-TA1B				
		< FUSE >				
⚠F901	1-533-466-11	FUSE, GLASS TUBE(T1.25AL/250V) (EA,SP,MY)				
⚠F902	1-533-464-11	FUSE, GLASS TUBE(DIA.5)(T800mAL/250V)				
						(EA,SP,MY)
⚠F903	1-533-468-11	FUSE, GLASS TUBE(DIA.5)(T2AL/250V)				
						(AEP,UK,EA,SP,MY)
⚠F903	1-576-375-11	FUSE, GLASS TUBE(3.15A/125V)(US,CND,MX)				
⚠F904	1-533-468-11	FUSE, GLASS TUBE(DIA.5)(T2AL/250V)				
						(AEP,UK,EA,SP,MY)
⚠F904	1-576-375-11	FUSE, GLASS TUBE(3015A/125V)(US,CND,MX)				
⚠F905	1-533-464-11	FUSE, GLASS TUBE(DIA.5)(T800mAL/250V)				
						(AEP,UK)
⚠F905	1-576-374-11	FUSE, GLASS TUBE(1.25A/125V)(US,CND,MX)				
		< TRANSISTOR >				
Q901	8-729-028-54	TRANSISTOR	KTC3205-Y-AT			
Q902	8-729-119-79	TRANSISTOR	2SC2785TP-FEK			
Q903	8-729-028-54	TRANSISTOR	KTC3205-Y-AT			
		< RESISTOR >				
R901	1-202-725-00	SOLID	3.3M	10%	1/2W	
						(CND,EA,MX)
R913	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R914	1-249-437-11	CARBON	47K	5%	1/4W	
R916	1-249-417-11	CARBON	1K	5%	1/4W	F
		< RELAY >				
RY901	1-755-332-11	RELAY				
		< TRANSFORMER >				
⚠T902	1-437-252-11	TRANSFORMER, POWER (CND,EA,MX)				
⚠T902	1-437-253-11	TRANSFORMER, POWER (SP,MY)				
⚠T902	1-437-251-11	TRANSFORMER, POWER (AEP,UK)				
**********						
	A-2007-972-	TC BOARD, COMPLETE				
		**********				
		< CAPACITOR >				
C401	1-162-962-11	CERAMIC CHIP	470PF	10%	50V	
C402	1-162-962-11	CERAMIC CHIP	470PF	10%	50V	
C403	1-162-962-11	CERAMIC CHIP	470PF	10%	50V	
C404	1-162-962-11	CERAMIC CHIP	470PF	10%	50V	
C405	1-130-486-00	MYLAR	0.018uF	10%	50V	
C406	1-104-666-11	ELECT	220uF	20.00%	10V	
C407	1-104-664-11	ELECT	47uF	20.00%	16V	
C408	1-130-486-00	MYLAR	0.018uF	10%	50V	
C409	1-104-666-11	ELECT	220uF	20.00%	10V	
C410	1-126-961-11	ELECT	2.2uF	20.00%	50V	
C411	1-104-664-11	ELECT	47uF	20.00%	16V	
C412	1-104-665-11	ELECT	100uF	20.00%	16V	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

TC TRAY SENSOR

Ref. No.	Part No.	Description			Remarks
C413	1-126-963-11	ELECT	4.7uF	20.00%	50V
C414	1-104-664-11	ELECT	47uF	20.00%	16V
C415	1-126-963-11	ELECT	4.7uF	20.00%	50V
C416	1-104-664-11	ELECT	47uF	20.00%	16V
C417	1-126-963-11	ELECT	4.7uF	20.00%	50V
C418	1-126-963-11	ELECT	4.7uF	20.00%	50V
C419	1-126-964-11	ELECT	10uF	20.00%	50V
C420	1-126-964-11	ELECT	10uF	20.00%	50V
C421	1-162-963-11	CERAMIC CHIP	680PF	10%	50V
C422	1-162-963-11	CERAMIC CHIP	680PF	10%	50V
C423	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C424	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C425	1-104-665-11	ELECT	100uF	20.00%	16V
C426	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C427	1-130-481-00	MYLAR	0.0068uF	5%	50V
C428	1-104-664-11	ELECT	47uF	20.00%	16V
C429	1-130-483-00	MYLAR	0.01uF	5%	50V
C430	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C431	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C432	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C436	1-126-961-11	ELECT	2.2uF	20.00%	50V
C438	1-126-233-11	ELECT	22uF	20%	50V
		< CONNECTOR >			
CN401	1-569-928-11	SOCKET, CONNECTOR 11P			
		< IC >			
IC401	8-759-242-58	IC TA8189N			
IC402	8-759-508-69	IC BA3126N			
		< TRANSISTOR >			
Q401	8-729-028-54	TRANSISTOR	KTC3205-Y-AT		
Q402	8-729-037-02	TRANSISTOR	KTA1266Y-AT		
Q403	8-729-038-67	TRANSISTOR	KRC102S		
Q404	8-729-920-31	TRANSISTOR	DTC343TK-T-146		
Q405	8-729-920-31	TRANSISTOR	DTC343TK-T-146		
Q406	8-729-920-31	TRANSISTOR	DTC343TK-T-146		
Q410	8-729-038-67	TRANSISTOR	KRC102S		
Q413	8-729-920-31	TRANSISTOR	DTC343TK-T-146		
		< RESISTOR >			
R401	1-216-821-11	METAL CHIP	1K	5%	1/16W
R402	1-216-821-11	METAL CHIP	1K	5%	1/16W
R403	1-216-821-11	METAL CHIP	1K	5%	1/16W
R404	1-216-821-11	METAL CHIP	1K	5%	1/16W
R405	1-216-809-11	METAL CHIP	100	5%	1/16W
R406	1-216-848-11	METAL CHIP	180K	5%	1/16W
R407	1-216-831-11	METAL CHIP	6.8K	5%	1/16W
R409	1-216-833-11	METAL CHIP	10K	5%	1/16W
R410	1-216-833-11	METAL CHIP	10K	5%	1/16W
R411	1-216-848-11	METAL CHIP	180K	5%	1/16W
R412	1-216-824-11	METAL CHIP	1.8K	5%	1/16W
R413	1-216-851-11	METAL CHIP	330K	5%	1/16W
R415	1-216-857-11	METAL CHIP	1M	5%	1/16W
R416	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R417	1-216-833-11	METAL CHIP	10K	5%	1/16W
R418	1-216-815-11	METAL CHIP	330	5%	1/16W
R419	1-216-815-11	METAL CHIP	330	5%	1/16W

Ref. No.	Part No.	Description			Remarks
R422	1-216-831-11	METAL CHIP	6.8K	5%	1/16W
R423	1-216-848-11	METAL CHIP	180K	5%	1/16W
R424	1-216-809-11	METAL CHIP	100	5%	1/16W
R426	1-216-848-11	METAL CHIP	180K	5%	1/16W
R427	1-216-824-11	METAL CHIP	1.8K	5%	1/16W
R428	1-216-851-11	METAL CHIP	330K	5%	1/16W
R429	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R430	1-216-833-11	METAL CHIP	10K	5%	1/16W
R431	1-216-809-11	METAL CHIP	100	5%	1/16W
R432	1-216-836-11	METAL CHIP	18K	5%	1/16W
R433	1-216-836-11	METAL CHIP	18K	5%	1/16W
R434	1-216-841-11	METAL CHIP	47K	5%	1/16W
R435	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R436	1-216-797-11	METAL CHIP	10	5%	1/16W
R437	1-216-833-11	METAL CHIP	10K	5%	1/16W
R438	1-216-805-11	METAL CHIP	47	5%	1/16W
R439	1-216-805-11	METAL CHIP	47	5%	1/16W
R440	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R441	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R442	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R443	1-218-446-11	METAL CHIP	1	5%	1/16W
R444	1-216-837-11	METAL CHIP	22K	5%	1/16W
R445	1-216-805-11	METAL CHIP	47	5%	1/16W
R446	1-216-833-11	METAL CHIP	10K	5%	1/16W
R447	1-216-837-11	METAL CHIP	22K	5%	1/16W
R448	1-216-809-11	METAL CHIP	100	5%	1/16W
R449	1-216-809-11	METAL CHIP	100	5%	1/16W
R450	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R451	1-216-295-00	SHORT	0		
R455	1-216-841-11	METAL CHIP	47K	5%	1/16W
R456	1-216-841-11	METAL CHIP	47K	5%	1/16W
R457	1-216-833-11	METAL CHIP	10K	5%	1/16W
R458	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
		< TRANSFORMER >			
T401	1-433-372-11	TRANSFORMER, BIAS OSCILLATION			
T402	1-419-080-11	COIL			
T403	1-419-080-11	COIL			
**********					
	1-678-457-11	TRAY SENSOR BOARD			
		**********			
		< CAPACITOR >			
C731	1-164-159-11	CERAMIC	0.1uF		50V
		< IC >			
IC731	8-749-081-01	PHOTO SENSOR DG-264			
IC732	8-749-081-01	PHOTO SENSOR DG-264			
IC733	8-749-081-01	PHOTO SENSOR DG-264			
		< RESISTOR >			
R731	1-247-876-11	CARBON	75K	5%	1/4W
R732	1-249-408-11	CARBON	180	5%	1/4W F
R733	1-247-876-11	CARBON	75K	5%	1/4W
R734	1-249-408-11	CARBON	180	5%	1/4W F
R735	1-247-876-11	CARBON	75K	5%	1/4W
R736	1-249-408-11	CARBON	180	5%	1/4W F
**********					

Ref. No.	Part No.	Description	Remarks
		MISCELLANEOUS	
		**********	
6	1-796-078-11	DECK, MECH	
7	1-757-707-11	CABLE, FLEXIBLE FLAT (11 CORE)	
10	1-757-705-11	CABLE, FLEXIBLE FLAT (11 CORE)	
57	X-4953-646-1	PANEL SUB ASSY, FRONT (AEP,UK)	
57	X-4953-850-1	PANEL SUB ASSY, FRONT (CND,EA,MX,SP,MY)	
62	1-418-692-32	INDICATOR BLOCK, LED	
63	1-418-693-32	INDICATOR BLOCK, LED	
69	1-757-702-11	CABLE, FLEXIBLE FLAT (17 CORE)	
70	1-757-708-11	CABLE, FLEXIBLE FLAT (21 CORE)	
⚠104	1-696-169-11	CORD, POWER (AEP,SP,MY)	
⚠104	1-696-169-21	CORD, POWER (UK)	
⚠104	1-783-531-71	CORD, POWER (CND,EA,MX)	
511	X-4953-282-1	PULLEY (A) ASSY, CHUCKING	
525	1-757-055-11	WIRE, PARALLEL (FFC)(16 CORE)	
526	1-757-703-11	CABLE, FLEXIBLE FLAT (21 CORE)	
⚠529	8-820-116-01	DEVICE,OPTICAL KSM-213DCP/Z-NP	
532	1-471-035-11	MAGNET ASSY	
M721	1-541-632-12	MOTOR, DC	
⚠T901	1-437-248-21	TRANSFORMER, POWER (AEP,UK)	
⚠T901	1-437-249-11	TRANSFORMER, POWER (CND,EA,MX)	
TU1	A-4303-624-A	TUNER UNIT (AEP,UK)	
TU1	A-4303-625-A	TUNER UNIT (CND,EA,MX,SP,MY)	
**********			

Ref. No.	Part No.	Description	Remarks
		**********	
		HARDWARE LIST	
		**********	
#1	7-685-245-19	SCREW +KTP 3X6 TYPE2 NON-SLIT	
#4	7-685-246-14	SCREW +KTP 3X8 TYPE2 NON-SLIT	
#2	7-685-546-14	SCREW +BTP 3X8 TYPE2 N-S	
#5	7-685-648-79	SCREW +BVTP 3X12 TYPE2 N-S	
#3	7-685-659-14	SCREW +BVTP 4X8 TYPE2 N-S	
**********			
		ACCESSORIES & PACKING MATERIALS	
		**********	
⚠	1-770-019-11	ADAPTOR, CONVERSION PLUG 3P (UK)	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

SS-CCP300

SERVICE MANUAL

Ver 1.0 2001. 04

Canadian Model
AEP Model
UK Model
E Model

Photo: (L-ch)

- SS-CCP300 is the speaker system in CMT-CP300

SPECIFICATIONS

Speaker system	Two-way, bass reflex system
Speaker units	13 cm dia., cone type woofer 2.5 cm dia., semi-dome-type tweeter
Rated impedance	6 ohms
Dimensions (w/h/d)	Approx. 170 × 275 × 265 mm
Mass	Approx. 3.0 kg net per speaker

Design and specifications are subject to change without notice.

SPEAKER SYSTEM

9-873-887-11
2001D1600-1
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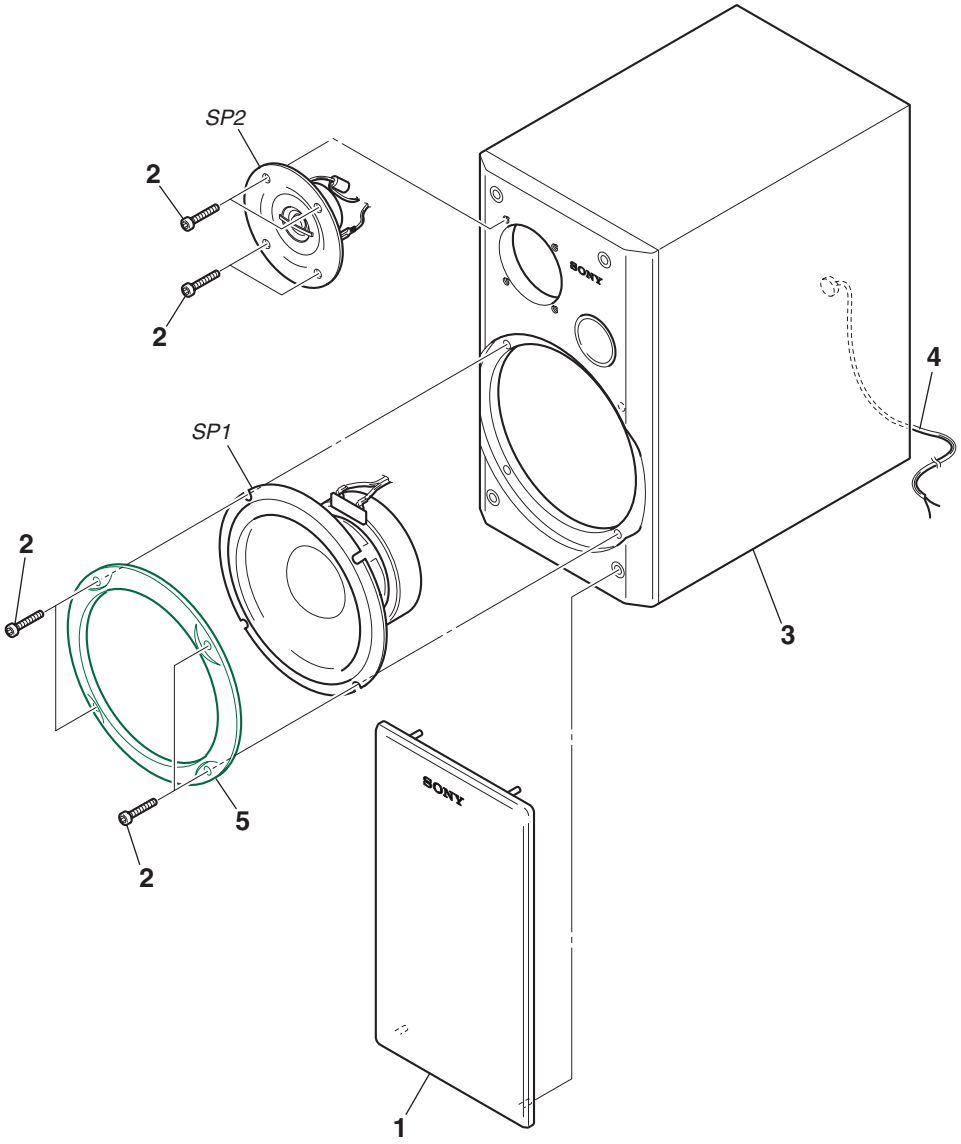
Sony Corporation
Audio Entertainment Group
General Engineering Dept.

SONY®

EXPLODED VIEW AND PARTS LIST

NOTE:
- The mechanical parts with no reference number in the exploded views are not supplied.

L-ch



Ref. No.	Part No.	Description	Remarks
1	X-4953-651-1	NET ASSY, SPEAKER	
2	4-932-425-01	SCREW (3.5X20)	
3	4-233-497-01	BOX (L), SPEAKER	
3	4-233-498-01	BOX (R), SPEAKER	
4	4-870-003-00	CLIPPER, CODE	
5	4-233-481-01	RING, SPEAKER	
SP1	1-544-865-11	SPEAKER (13cm)	
SP2	1-544-866-11	SPEAKER (TWEETER) (2.5cm)	

MEMO

REVISION HISTORY

Clicking the version allows you to jump to the revised page.
Also, clicking the version at the upper right on the revised page allows you to jump to the next revised page.

Ver.	Date	Description of Revision
1.0	2001.04	New